OLYMPUS®

DIGITAL CAMERA

SP-320

Advanced Manual

Detailed explanations of all the functions for getting the most out of your camera.

Basic Operation

Basic Shooting

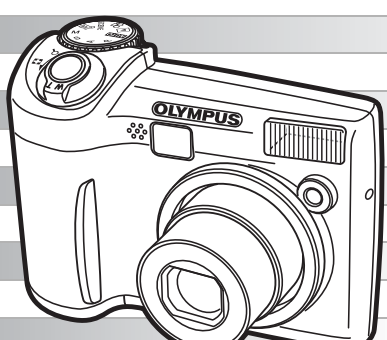
Advanced Shooting

Playing Back

Printing

Online Pictures

Camera Settings



- Thank you for purchasing an Olympus digital camera. Before you start to use your new camera, please read these instructions carefully to enjoy optimum performance and a longer service life. Keep this manual in a safe place for future reference.
- We recommend that you take test shots to get accustomed to your camera before taking important photographs.
- In the interest of continually improving products, Olympus reserves the right to update or modify information contained in this manual.

How to use this manual

● Basic and Advanced Manuals

The instruction manual accompanying this camera is divided into two parts: the Basic Manual and the Advanced Manual (this document).

Basic Manual This manual gives you easy-to-follow explanations on how to take pictures and view them so that you can get started quickly. Go ahead and take some pictures! You will also find information on the camera's main functions as well as how to make prints and enjoy your pictures on a computer.

Advanced Manual This manual introduces you to the camera's many functions after you have mastered the basics. It will help you to use the camera's capabilities to take much more creative pictures, with more fun!

● Indications used in this manual

Below is an explanation of how to read the instructions in this manual. Please read it carefully before proceeding.

Note
Important information on factors which may lead to a malfunction or operational problems. Also warns of operations that should be absolutely avoided.

TIPS
Useful information and hints that will help you get the most out of your camera.

☞
Reference pages describing details or associated information.

Composition of the manual

You'll find important points for getting the most out of your camera here. Read this part before taking pictures.	**Basic operation** P. 9	1
	Tips before you start taking pictures P. 21	2
Explanations of techniques from basic to advanced, giving you an understanding of all the functions related to taking pictures.	**Basic shooting functions** P. 35	3
	Advanced shooting functions P. 50	4
	Additional shooting functions P. 66	5
To view, edit and sort the pictures you have taken.	**Playback** P. 75	6
Settings to make your camera easier to use.	**Settings** P. 105	7
To print the pictures you have taken.	**Printing pictures** P. 120	8
To enjoy the pictures you have taken on a computer. To use OLYMPUS Master.	**Connecting the camera to a computer** P. 136	9
Troubleshooting. For when you want to know the names of parts, see a list of menus, or find what you are looking for.	**Appendix** P. 152	10
	Miscellaneous P. 172	11

The title page of each chapter gives a short description of the contents. Be sure to check it out.

Table of Contents

How to use this manual 2
Composition of the manual 3

1 Basic operation -9

Mode dial 10
Direct buttons 12
Using the direct buttons in shooting mode 12
Using the direct buttons in playback mode 13
Menus 14
About the menus 14
Using the menus 17
Using the GUIDE function 19
How to read the procedure pages 20

2 Tips before you start taking pictures - - - - - -21

Turning the camera on and off 22
When to use the monitor and viewfinder 23
If the correct focus cannot be obtained 24
How to focus (focus lock) 24
Subjects that are difficult to focus on 25
Record mode 26
Still picture record modes 26
Movie record modes 28
Number of storable still pictures/remaining recording time 28
Changing the record mode 30
The internal memory and memory card 32
The card 33
Inserting and removing the card 33

3 Basic shooting functions- - - - - - - - - - - - - - - -35

Selecting a scene mode according to the situation 36
Zooming in on your subject 40
Using the zoom 40
Using the digital zoom 40
Using macro/super macro mode 41
Flash shooting 42
Flash intensity control 44
Synchro SYNC2 45
Slave flash photography (FLASH) 46

Recording movies 47
Camera movement compensation 48
Recording sound with movies 49

4 Advanced shooting functions ----------50

Changing the aperture value for shooting pictures A 51
Changing the shutter speed for shooting pictures S 52
Changing the aperture value and shutter speed for shooting pictures M 53
My Mode 53
Focusing applications 54
AF mode (iESP/SPOT/AREA) 54
Manual focus (FOCUS MODE) MF 55
Fulltime AF 56
AF lock 56
AF illuminator 57
Changing the area for measuring the brightness of a subject (ESP/[•]) 58
AE lock AEL 58
Changing ISO sensitivity (ISO) 60
Changing picture brightness 60
Adjusting the white balance WB 61
White balance compensation WB 63
Adjusting a picture for recording (SHARPNESS/CONTRAST/SATURATION) 64
Reducing picture noise (NOISE REDUCTION) NR 65

5 Additional shooting functions ----------66

Sequential shooting HI AF BKT 67
Timelapse shooting 68
Self-timer shooting 69
Panorama shooting 70
Recording sound with still pictures 71
Changing the monitor display (DISP./GUIDE) 72
Histogram 73
Frame assist 74

6 Playback - - -

Setting camera sounds
(■))/BEEP/SHUTTER SOUND/VOLUME) 109
Resetting file names (FILE NAME) 110
Adjusting the image processing function (PIXEL MAPPING) 111
Adjusting the monitor brightness 112
Setting the date and time 113
Setting the date and time in another time zone
(DUAL TIME SETUP) 114
Setting the measurement unit (m/ft) 115
Customizing the camera (MY MODE SETUP/SHORT CUT/
CUSTOM BUTTON) 115

8 Printing pictures - 120

Direct printing (PictBridge) 121
Using the direct printing function 121
Printing pictures (EASY PRINT) 122
Printing pictures (CUSTOM PRINT) 123
Other print modes and print settings 127
If an error message is displayed 130
Print settings (DPOF) 131
How to make print reservations 131
Single-frame reservation 133
All-frame reservation 134
Resetting print reservation data 135

9 Connecting the camera to a computer - - - - 136

Flow 137
Using OLYMPUS Master 138
What is OLYMPUS Master? 138
Installing OLYMPUS Master 139
Connecting the camera to a computer 143
Starting up OLYMPUS Master 144
Displaying camera images on a computer 146
Downloading and saving images 146
Viewing still pictures and movies 148
Printing pictures 149
To download and save images to a computer without
using OLYMPUS Master 151

10 Appendix - 152

Troubleshooting 153
Error messages 153
Troubleshooting 155
Camera care 162
Batteries 163
Accessories (optional) 164
AC adapter 164
Safety Precautions 165
Glossary of terms 169

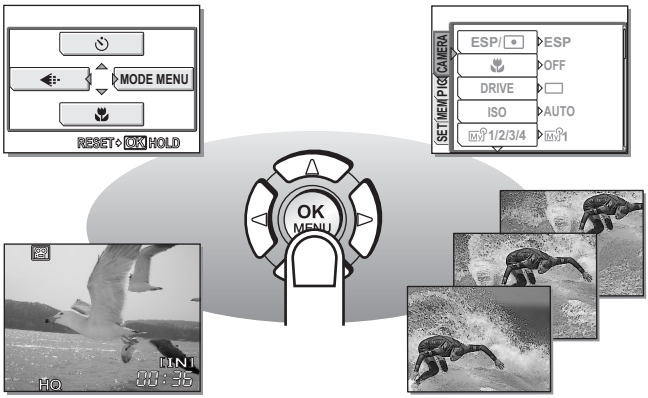
11 Miscellaneous - 172

Menu list 173
List of factory default settings 182
Functions available in shooting modes and scenes 184
Index 187

Basic operation

1

Are you ever overwhelmed by all of the advanced shooting and editing functions? Professional photographers use these functions to achieve a variety of effects. Now you too can achieve such effects simply by pressing the buttons on your digital camera. You can use the various functions available to adjust the brightness and white balance of your pictures, alter the focusing range, and much more.
Just display a menu on the monitor and use the buttons to choose a setting. Familiarize yourself with the buttons and menus before reading the explanations of the various functions.

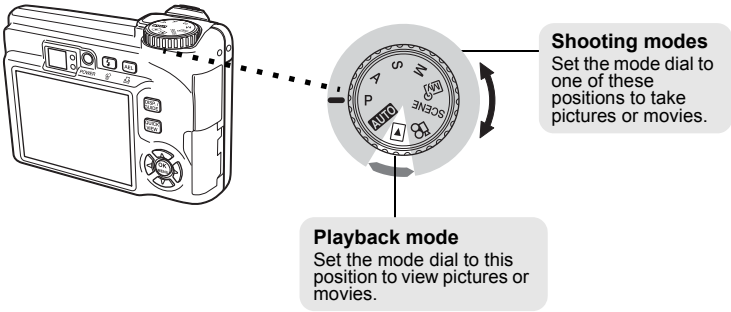


Movies

Sequential shooting

Mode dial

This camera features a shooting mode and a playback mode. Use the mode dial to make settings. Set the desired mode and turn the camera on.


Shooting modes
Set the mode dial to one of these positions to take pictures or movies.
Playback mode
Set the mode dial to this position to view pictures or movies.

● About the mode dial

Shooting modes	AUTO	This function allows you to take pictures with full automatic settings.
	P	The camera automatically sets the optimum aperture value and shutter speed for the brightness of the subject.
	A	This function allows you to set the aperture manually. The camera sets the shutter speed automatically. ☞"Changing the aperture value for shooting pictures" (P. 51)
	S	This function allows you to set the shutter speed manually. The camera sets the aperture automatically. ☞"Changing the shutter speed for shooting pictures" (P. 52)
	M	This function allows you to set the aperture and shutter speed manually. ☞"Changing the aperture value and shutter speed for shooting pictures" (P. 53)
	My	This function allows you to set your own shooting parameters and register them as your original mode. ☞"My Mode" (P. 53)
	SCENE	This function allows you to select from 25 situation-related modes set to the shooting conditions. ☞"Selecting a scene mode according to the situation" (P. 36)
		This function lets you record movies. ☞"Recording movies" (P. 47)
Playback mode		This function allows you to play back still pictures or movies. You can also play back sound. ☞"Playback" (P. 75)

? *TIPS*

- Direct button functions and menu contents vary depending on the position of the mode dial. ☞"Direct buttons" (P. 12), "Menus" (P. 14), "Menu list" (P. 173)
- You can change the mode before and after turning the camera on.

Mode dial notation

In this manual, the following icons indicate the position of the mode dial necessary for operating functions.

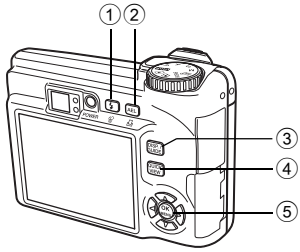
This indicates an operation when the mode dial is set to 🎬.

This indicates an operation when the mode dial is set to any of the following modes: AUTO P A S M SCENE 🎬.

Direct buttons

This camera features buttons for setting functions directly.
The direct buttons have different functions in shooting mode and in playback mode.

Using the direct buttons in shooting mode

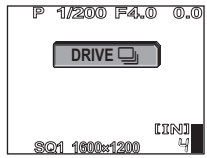


① ϟ button (Flash mode) ☞P. 42

Selects the flash mode.

② **AEL** button (AE lock)/Custom button ☞P. 58, P. 115

Locks the exposure. The lock function is alternately activated and canceled each time you press the button. Frequently used functions can be assigned to the custom button. The assigned function setting changes each time you press the button.
The screen on the right shows when [DRIVE] is assigned to the custom button.



③ **DISP./GUIDE** button ☞P. 19, P. 72

Select a menu item, and press this button to display an explanation of its function.
Press this button repeatedly to display the lines and histogram. Also press the **DISP./GUIDE** button to turn off the monitor.

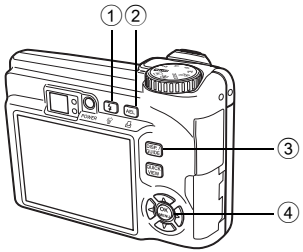
④ **QUICK VIEW** button ☞P. 76

The last picture taken is displayed on the monitor. All the functions in playback mode are available. To return to shooting mode, press the **QUICK VIEW** button or press the shutter button halfway.

⑤ OK button (OK/MENU) ☞P. 14

Displays the top menu of shooting mode.

Using the direct buttons in playback mode



① button (Erase) ☞P. 85, P. 102

Erases pictures displayed on the monitor.

② button (Print) ☞P. 122

Prints pictures displayed on the monitor.

③ **DISP./GUIDE** button ☞P. 19

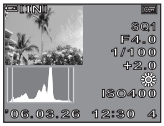
Select a menu item, and press this button to display an explanation of its function. Press this button repeatedly during playback to change the display in the following order. The histogram is not displayed while displaying movies.

The playback screen is displayed.

Detailed camera information is displayed.

Only is displayed.

The histogram is displayed.

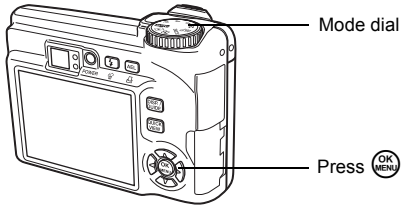


④ button (OK/MENU) ☞P. 14

Displays the top menu of playback mode.

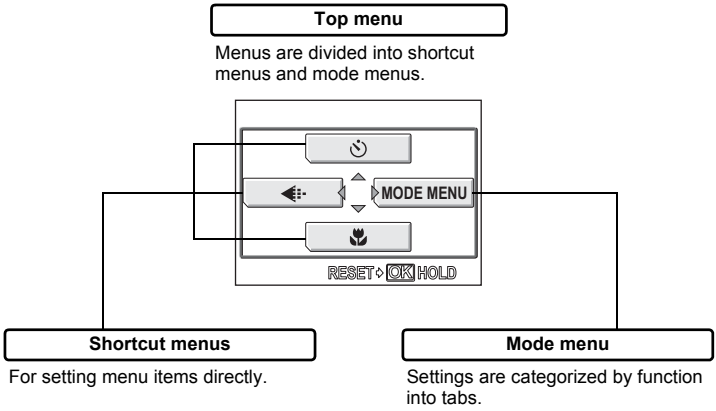
Menus

Set the mode dial to any mode and press (OK MENU) to display the menus on the monitor. Menus are used to make each camera setting.



About the menus

The menu items displayed in shooting mode and playback mode differ.


Top menu
Menus are divided into shortcut menus and mode menus.
MODE MENU
RESET OK HOLD
Shortcut menus
For setting menu items directly.
Mode menu
Settings are categorized by function into tabs.

TIPS

- Press and hold down (OK MENU) on the top menu to jump directly to one of the following functions.

  Shooting mode (except MY)

  The [RESET] screen is displayed. ☞"Resetting the settings to the default (RESET)" (P. 106)

  Playback mode

  The [ALBUM ENTRY] screen is displayed. ☞"Adding pictures to an album (ALBUM ENTRY)" (P. 80)

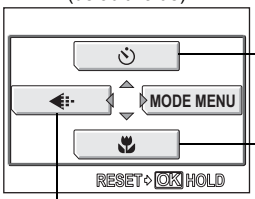
  Album playback mode

  The [UNDO ENTRY] screen is displayed. ☞"Undoing album entries (UNDO ENTRY)" (P. 84)

Shortcut menus

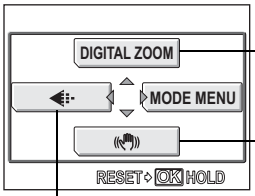
● Shooting mode

For still pictures (default value)



☞P. 69
☞P. 41
☞P. 26

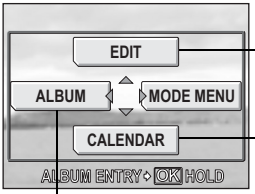
For movies



☞P. 40
☞P. 48
☞P. 26

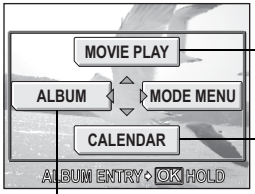
● Playback mode

For still pictures



☞P. 89
92, 95
☞P. 77
☞P. 80

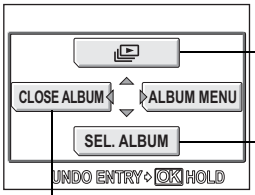
For movies



☞P. 78
☞P. 77
☞P. 80

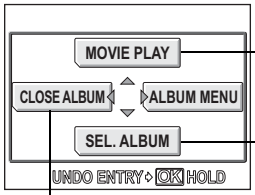
In album playback mode

For still pictures



☞P. 86
☞P. 82
☞P. 83

For movies



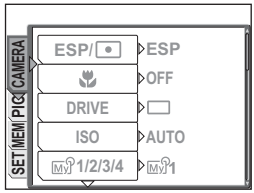
☞P. 78
☞P. 82
☞P. 83

? *TIPS*

- The shortcut menus can also be accessed from the mode menu. Also, you can change short cut menus in any mode other than **AUTO**, 🎭, and ▶. ☞"Customizing the camera (MY MODE SETUP/SHORT CUT/CUSTOM BUTTON)" (P. 115)

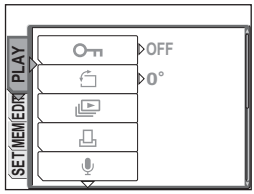
Mode menu

● Shooting mode



CAMERA tab	For setting shooting-related functions.
PICTURE tab	For setting picture-related functions, such as record mode and white balance.
MEMORY/ CARD tab	For formatting internal memory or a card. Also saves internal memory data to a card.
SETUP tab	For setting basic camera functions and settings that make the camera easier to use.

● Playback mode



PLAY tab	For setting playback-related functions.
EDIT tab	For editing saved pictures. The same screen is displayed when [EDIT] is selected from the top menu.
MEMORY/ CARD tab	For formatting internal memory or a card, and erasing all image data. Also saves internal memory data to a card.
SETUP tab	For setting basic camera functions and settings that make the camera easier to use.

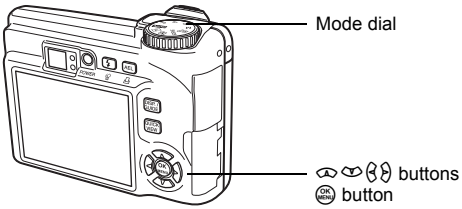
? ***TIPS***

- The [MEMORY] tab is displayed when the internal memory is in use. The [CARD] tab is displayed when a card is inserted in the camera.
- For a list of mode menu items, see “Menu list” (P. 173).

Using the menus

Use the arrow pad and OK to set menu items.
Follow the operation guide and arrows on the screen to select and change settings.

Ex: Setting [🌷]

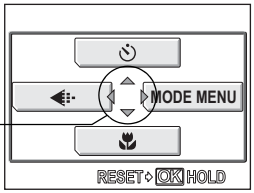


1 **Set the mode dial to any of the following modes: PASM MY SCENE.**

2 **Press OK.**

- The top menu is displayed.

Top menu

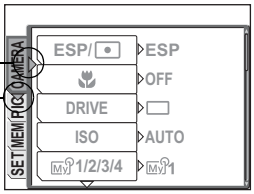


This refers to the arrow pad (▲▼◀▶).

3 **Press ▶ to select [MODE MENU].**

4 **Press ▲▼ to select the [CAMERA] tab, and press ▶.**

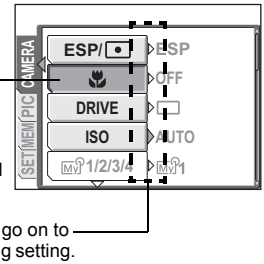
- Refer to the arrows on the screen to select and make settings with the arrow pad.



This refers to the arrow pad (◀▼).

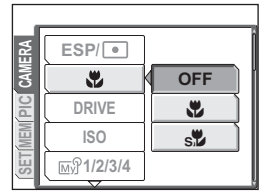
5 Press ▲▼ to select the [🌷], and press ⊛.

- Refer to the arrows on the screen to select and make settings with the arrow pad.
- Unavailable settings cannot be selected.



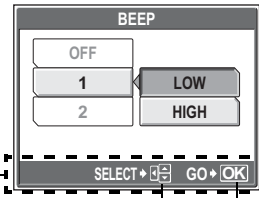
6 Press ▲▼ to select [OFF], [🌷], or [S🌷], and press OK.

- Press MENU repeatedly to exit the menu.



? TIPS

- The operation guide displayed at the bottom of the screen depends on the menu to be set. In this case, follow the operation guide to set or change settings using the arrow pad.



Menu operation notation

In this manual, procedures for using the menus are expressed as follows:

- Ex: Steps 1 to 5 for setting [🌷]

P A S M MY SCENE

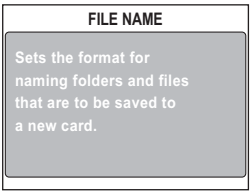
Top menu ▶ [MODE MENU] ▶ [CAMERA] ▶ [🌷]

Using the GUIDE function

This camera has a **GUIDE** function. Pressing the **DISP./GUIDE** button during menu display in shooting mode or playback mode automatically displays a menu guide explaining the menus.

1 With a menu selected, hold down the DISP./GUIDE button.

- The menu explanation is displayed.
- Release the **DISP./GUIDE** button to close the menu guide.

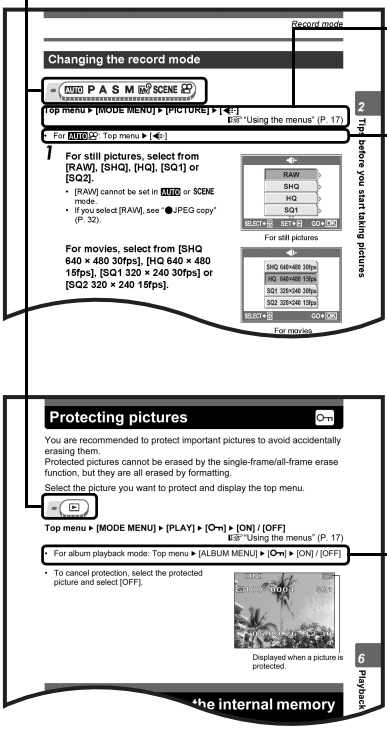


When [FILE NAME] is selected

How to read the procedure pages

A sample of a procedure page is shown below explaining the notation. Look at it carefully before taking or viewing pictures.

This indicates the position of the mode dial.
If multiple icons are displayed, the described function can be used in any of these modes.
☞ “Mode dial” (P. 10), “Mode dial notation” (P. 11)


Record mode
Changing the record mode
AUTO P A S M SCENE
Top menu ▶ [MODE MENU] ▶ [PICTURE] ▶ [◀▫]
☞“Using the menus” (P. 17)
For AUTO: Top menu ▶ [◀▫]
1
For still pictures, select from [RAW], [SHQ], [HQ], [SQ1] or [SQ2].
[RAW] cannot be set in AUTO or SCENE mode.
If you select [RAW], see “●JPEG copy” (P. 32).
RAW
SHQ
HQ
SQ1
SELECT
SET
GO
For still pictures
For movies, select from [SHQ 640 × 480 30fps], [HQ 640 × 480 15fps], [SQ1 320 × 240 30fps] or [SQ2 320 × 240 15fps].
SHQ 640×480 30fps
HQ 640×480 15fps
SQ1 320×240 30fps
SQ2 320×240 15fps
For movies
2 Tips before you start taking pictures
Protecting pictures
You are recommended to protect important pictures to avoid accidentally erasing them.
Protected pictures cannot be erased by the single-frame/all-frame erase function, but they are all erased by formatting.
Select the picture you want to protect and display the top menu.
Top menu ▶ [MODE MENU] ▶ [PLAY] ▶ [O-n] ▶ [ON] / [OFF]
☞“Using the menus” (P. 17)
For album playback mode: Top menu ▶ [ALBUM MENU] ▶ [O-n] ▶ [ON] / [OFF]
To cancel protection, select the protected picture and select [OFF].
Displayed when a picture is protected.
6 Playback
the internal memory

Select the menus in the order indicated by ▶. ☞“Using the menus” (P. 17), “Menu operation notation” (P. 18)

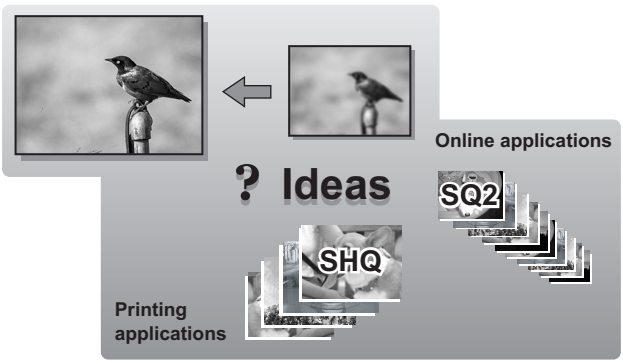
Procedures differ for AUTO mode, mode, and album playback mode.

This sample page is only for your reference. It may differ from the actual page in this manual.

Tips before you start taking pictures

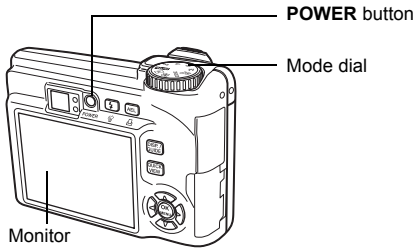
2

Your pictures are almost guaranteed to come out well just by setting the mode dial to AUTO and pressing the shutter button. But occasionally, you can't focus on your subject, the subject is too dark, or the picture doesn't come out the way you want.
Just knowing which button to press or which setting to change can help you solve these problems.
And did you know that by selecting an image size according to how you plan to use the pictures afterwards, you can store more pictures in the internal memory and on the memory card? These are just some of the hints provided in this chapter.



Turning the camera on and off

Press the **POWER** button to turn the camera on.



● Turning the camera on

Set the mode dial to any mode, and press the **POWER** button.

- The monitor turns on.
- When you turn on the camera in shooting mode, the lens extends.

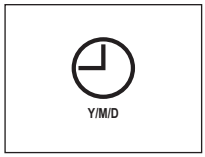
● Turning the camera off

Press the **POWER** button.

- The monitor turns off.
- The lens retracts.

TIPS

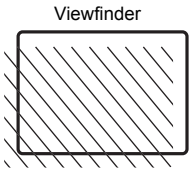
- The screen on the right is displayed when the date and time setting has returned to the factory default setting. Setting the date and time makes your pictures easier to manage, such as when you view them with calendar display.
  ☞"Setting the date and time" (P. 113)



When to use the monitor and viewfinder

You can take pictures using either the monitor or the viewfinder. Use the one that is most apt for the situation.
To turn the monitor on or off, press the **DISP./GUIDE** button several times.
☞"Direct buttons" (P. 12)

	Monitor	Viewfinder
Advantages	You can check the picture area that the camera actually records.	Camera movement does not occur easily and subjects can be seen clearly even in bright places. Little battery power is used.
Disadvantages	Camera movement occurs easily and subjects may be difficult to see in bright/dark places. The monitor uses more battery power than the viewfinder.	When close to a subject, the image in the viewfinder differs slightly from the picture that the camera actually records.
Tips	Use the monitor when you need to know the exact area the camera records, or to take a close-up of a person or flower (macro shooting).	Use the viewfinder for general snapshots, landscape pictures and other casual shots.



- The camera records a wider area than the image in the viewfinder.
- As you get closer to the subject, the actual image recorded (the shaded area in the illustration on the left) differs slightly from the image in the viewfinder.

TIPS

When the monitor darkens

→ If the camera is not used for 10 seconds or more, the monitor darkens slightly. After that, if the camera is not used for 3 minutes or more, the monitor turns off automatically. Press the shutter button or use the zoom lever to turn the monitor on.

To adjust the brightness of the monitor

→ Adjust the brightness with the [] settings. ☞"Adjusting the monitor brightness" (P. 112)

When the monitor is hard to see

→ Bright light, such as direct sunlight, may cause vertical lines (smears) to appear on the image in the monitor. This does not affect recorded pictures.

Note

- When a conversion lens is attached to the camera, vignetting may occur in the viewfinder so use the monitor.

If the correct focus cannot be obtained

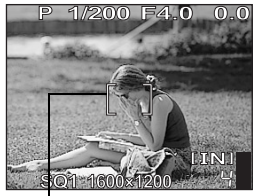
The camera automatically detects the focus target in the frame. The level of contrast is one of the criteria it uses to detect the subject. The camera may fail to determine subjects with lower contrast than the surroundings or with an area of extremely strong contrast in the frame. If this happens, the simplest solution is to use the focus lock.

How to focus (focus lock)

AUTO P A S M SCENE

1 **Position the AF target mark on the subject you want to focus on.**

- When shooting a hard-to-focus or fast-moving subject, focus the camera on an object about the same distance away as the subject.



AF target mark

2 **Press the shutter button halfway until the green lamp lights.**

- The green lamp lights when the focus and exposure are locked.
- When the green lamp blinks, the focus and exposure are not locked. Release your finger from the shutter button, re-position the AF target mark on the subject and press the shutter button halfway again.

Shutter button

3 **Keeping the shutter button pressed halfway, recompose your shot.**

Green lamp

4 **Press the shutter button fully.**

- The camera takes the picture. The orange lamp blinks while the picture is recorded.

Shutter button

TIPS

To focus on the subject in the center of the frame

☞"AF mode (iESP/SPOT/AREA)" (P. 54)

When the frame in which you focus on a subject is different from the frame in which you lock the exposure

☞"AE lock" (P. 58)

To fix the focus

☞"AF lock" (P. 56)

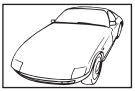
Note

- Press the shutter button gently. If it is pressed forcefully, the camera may move causing the picture to blur.
- Never remove the batteries or disconnect the AC adapter while the orange lamp on the side of the viewfinder is blinking. Doing so could destroy stored pictures and prevent storage of pictures you have just taken.
- Recorded pictures are saved in the camera regardless of whether the camera is turned off or the batteries are replaced or removed.
- When taking pictures against strong backlight, the area of the picture in shadow may appear colored.
- When a conversion lens is attached to the camera, the edges of the picture may appear dark. Check the recorded image on the monitor.

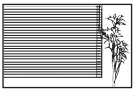
Subjects that are difficult to focus on

Under certain types of conditions, the auto focus may not work properly.

The green lamp blinks.
The subject cannot be brought into focus.

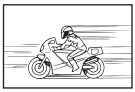

Subject with low contrast

Subject with an extremely bright area in the center of the frame


Subject without vertical lines

The green lamp lights, but the subject cannot be brought into focus.

Subjects at different distances


Fast-moving subject

The subject is not in the center of the frame

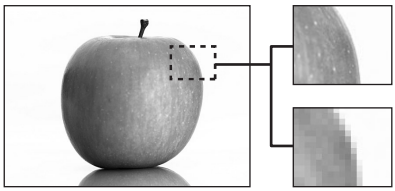
In these cases, focus (focus lock) on an object with high contrast at the same distance as the intended subject, recompose your shot and then take the picture. If the subject has no vertical lines, hold the camera vertically and focus the camera using the focus lock function by pressing the shutter button halfway, then return the camera to the horizontal position while keeping the button pressed halfway and take the picture.

Record mode

You can select a record mode in which to take pictures or shoot movies. Select the best record mode for your purpose (printing, editing on a computer, website editing, etc.). For information on the image sizes for each record mode and the number of storable still pictures/movie recording time, see the tables on P. 28 to 29.

Still picture record modes

Still pictures (other than those in raw data format) are recorded in JPEG format. Record mode depicts the image size and compression rate of your pictures. Pictures are made from thousands of dots (pixels). If a picture with relatively few pixels is enlarged, it looks like a mosaic. Pictures with more pixels are denser and clearer but require more space (larger file size), thus decreasing the number of pictures that can be saved. Though a high compression rate results in a small file size, this also produces a grainy look.



Picture with high number of pixels

Picture with low number of pixels

● Normal image modes

Image becomes clearer

Application	Compression / Image size	Low compression	High compression
Select according to print size	3072 × 2304	SHQ	HQ
	2592 × 1944	SQ1 HIGH	SQ1 NORMAL
	2288 × 1712		
	2048 × 1536		
	1600 × 1200		
	1280 × 960	SQ2 HIGH	SQ2 NORMAL
	1024 × 768		
For small-sized prints and websites	640 × 480		

Image size becomes larger

Image size
The number of pixels (horizontal × vertical) used when saving an image. You can save your pictures at a large image size to get clearer prints. However, as the image size increases, the file size (data size) also increases, which decreases the number of pictures that can be saved.

Compression
In record modes other than [RAW], pictures are compressed and saved. The higher the compression, the less clear the image will be.

● Special record modes

Record mode	Features	Image size
RAW	Raw uncompressed data. Data is in ORF format.	3072 × 2304
3:2 (SHQ, HQ)	This is useful for ordering prints from a photo store.	3072 × 2048

Raw data
This is unprocessed data which has not been subjected to color conversion or white balance, sharpness and contrast adjustment. Use the OLYMPUS Master software to display the picture data on a computer. You can also view the data with Photoshop software by installing the Plug-in available from the Olympus website. Raw data cannot be displayed using ordinary software, and print reservations cannot be made. Pictures taken with the record mode set to raw data can be edited with this camera.
☞"Editing still pictures (RAW DATA EDIT/▣/⊿/REDEYE FIX/BLACK & WHITE/SEPIA)" (P. 89)

3:2
The image aspect ratio is normally 4:3. If the aspect ratio is changed to 3:2, the image can be printed at a photo store without losing the image borders.

Monitor display when 3:2 is set

Movie record modes

Movies are recorded in Motion-JPEG format.

Number of storable still pictures/remaining recording time

For still pictures

Record mode	Image size		Number of storable still pictures			
			Internal memory		Using a 128 MB card	
			With sound	Without sound	With sound	Without sound
RAW	3072 × 2304		2	2	12	12
SHQ	3072 × 2304		5	5	24	24
	3:2 3072 × 2048		5	5	27	27
HQ	3072 × 2304		14	15	71	73
	3:2 3072 × 2048		16	17	80	82
SQ1	2592 × 1944	HIGH	7	7	34	34
		NORMAL	20	21	99	102
	2288 × 1712	HIGH	9	9	44	44
		NORMAL	26	27	126	130
	2048 × 1536	HIGH	11	11	54	55
		NORMAL	32	33	156	162
	1600 × 1200	HIGH	18	18	88	90
		NORMAL	50	53	241	257
SQ2	1280 × 960	HIGH	28	29	135	140
		NORMAL	75	82	362	399
	1024 × 768	HIGH	42	44	204	215
		NORMAL	110	127	532	614
	640 × 480	HIGH	97	110	469	532
		NORMAL	207	276	997	1330

For movies

Record mode	Image size	Remaining recording time			
		Internal memory		Using a 128 MB card	
		With sound	Without sound	With sound	Without sound
SHQ	640 × 480 (30 frames/sec.)	14 sec.	14 sec.	1 min. 10 sec.	1 min. 10 sec.
HQ	640 × 480 (15 frames/sec.)	29 sec.	29 sec.	2 min. 20 sec.	2 min. 21 sec.
SQ1	320 × 240 (30 frames/sec.)	39 sec.	40 sec.	3 min. 10 sec.	3 min. 13 sec.
SQ2	320 × 240 (15 frames/sec.)	1 min. 18 sec.	1 min. 20 sec.	6 min. 15 sec.	6 min. 26 sec.

Number of storable still pictures

Remaining recording time

TIPS

- When a picture is transferred to a computer, the size of the picture on the computer screen varies depending on the computer's monitor setting. For instance, a picture taken with an image size of 1,024 × 768 fills the screen if you set the picture to 1× when the monitor setting is 1,024 × 768. However, if the monitor setting is over 1,024 × 768 (such as 1,280 × 1,024), the picture only takes up part of the screen.

Note

- The number of storable still pictures and remaining recording time listed in the tables are approximate.
- The number of storable still pictures may change according to the subject or factors like whether print reservations or album entries have been made or not. In certain instances, the number of remaining pictures does not change even when you take new pictures or erase stored pictures.

Changing the record mode

AUTO P A S M MY SCENE

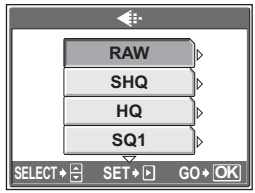
Top menu ▶ [MODE MENU] ▶ [PICTURE] ▶ [◀:-]

☞"Using the menus" (P. 17)

- For AUTO: Top menu ▶ [◀:-]

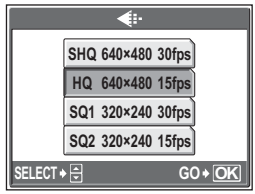
1 **For still pictures, select from [RAW], [SHQ], [HQ], [SQ1] or [SQ2].**

- [RAW] cannot be set in AUTO or SCENE mode.
- If you select [RAW], see "●JPEG copy" (P. 31).



For still pictures

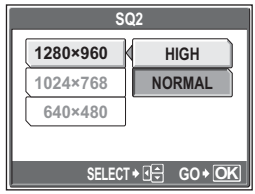
For movies, select from [SHQ 640 × 480 30fps], [HQ 640 × 480 15fps], [SQ1 320 × 240 30fps] or [SQ2 320 × 240 15fps].



For movies

2 **Select the image size of the record mode.**

If you selected [SQ1] or [SQ2], press ▷ after choosing the image size, then select [HIGH] or [NORMAL].



When [SQ2] is selected

3 **Press OK.**

●JPEG copy

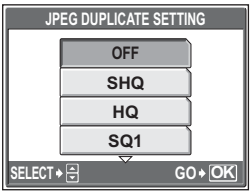
Pictures taken in the raw data format can be stored in JPEG format at the same time as they are recorded in raw data. To record pictures in JPEG format you can select [SHQ], [HQ], [SQ1] or [SQ2] for the record mode, but you cannot select the image size. Pictures are recorded in the size currently set for each record mode.

1 **In the [◀⋮-] screen, select [RAW], and press ▷.**

2 **Select a JPEG duplicate setting from [OFF], [SHQ], [HQ], [SQ1] and [SQ2].**

- Select [OFF] to save raw data only.

3 **Press OK.**



The internal memory and memory card

Pictures taken are recorded in the internal memory.
Pictures can also be recorded to an optional xD-Picture Card (“card”). The card can be used to record more pictures than is possible with the internal memory of the camera. A card can be convenient when taking many pictures while on a trip.

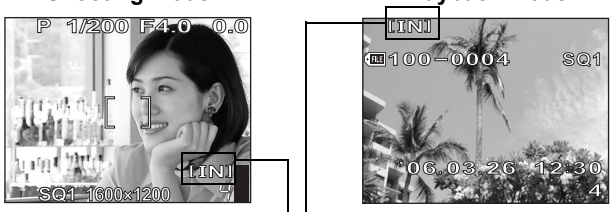
● Internal memory basics

The internal memory is the camera’s media for recording pictures, similar to film in a film camera.
Pictures recorded to the internal memory can be easily erased on the camera or processed using a computer. Unlike portable storage media, the internal memory cannot be removed or exchanged.

● Using the internal memory or card

You can confirm on the monitor whether the internal memory or card is being used during shooting and playback operations.

Shooting mode **Playback mode**



Memory indicator

Monitor indication	Shooting mode	Playback mode
[IN]	Pictures are recorded to the internal memory.	Pictures are being played back from the internal memory.
[xD]	Pictures are recorded to a card.	Pictures are being played back from a card.

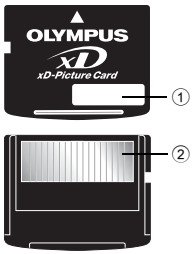
- The internal memory and a card cannot be used at the same time.
- The internal memory cannot be used for shooting or playback operations when a card is inserted in the camera. Remove the card before using the internal memory.
- Pictures recorded to the internal memory can be copied to a card. ☞“Copying pictures in the internal memory to the card (BACKUP)” (P. 101)

The card

The card is a medium for recording pictures, similar to film in a film camera. Pictures recorded to the card can be easily erased on the camera or processed using a computer. The number of recordable pictures can be increased by using a card with a larger capacity.

① Index area
You can use this space to write the contents of the card.

② Contact area
The part where the data transferred from the camera enters the card.



Compatible cards
xD-Picture Card (16 MB to 1 GB)

Note

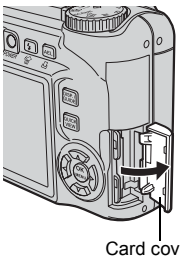
- This camera may not recognize a non-OLYMPUS card or a card that was formatted on another device (such as a computer, etc.). Make sure to format the card on this camera before use. ☞"Formatting the internal memory or card (MEMORY FORMAT/FORMAT)" (P. 104)

Inserting and removing the card

1 Make sure the camera is turned off.

- The monitor is off.
- The lens is retracted.

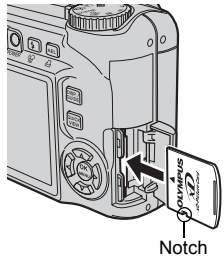
2 Open the card cover.



● Inserting the card

3 **Orient the card as shown, and insert it into the card slot as shown in the illustration.**

- Insert the card straight in.
- Insert the card until it clicks into place.
- Inserting the card in the wrong direction or at an angle may damage the contacts and prevent the card from being removed.
- The card may not record properly if it is not inserted all the way in.



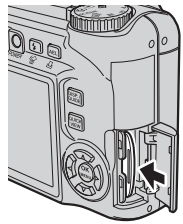
● Removing the card

3 **Push the card all the way in and release slowly.**

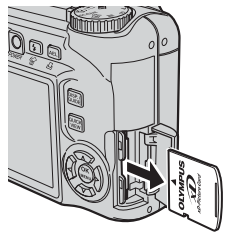
- The card protrudes slightly and stops.

Caution

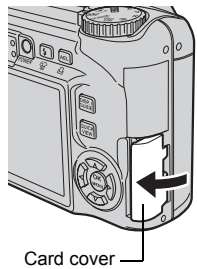
Releasing your finger quickly after pushing the card all the way in may cause it to eject forcefully out of the slot.



- Grasp the card and remove.



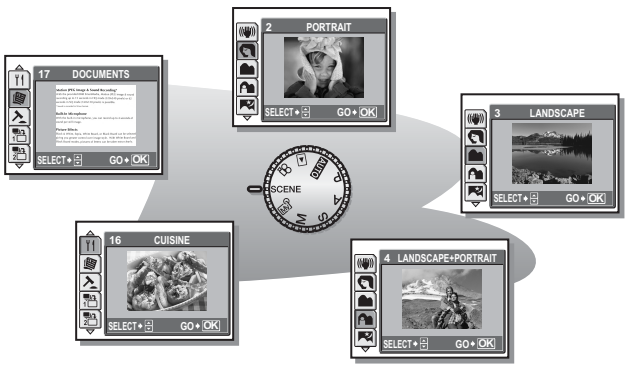
4 **Close the card cover.**



Basic shooting functions

3

A professional photographer adjusts the exposure to the optimal setting, chooses the best focusing method and even selects the type of film according to the subject.
With a digital camera, you don't need to learn how to make difficult settings. Your camera will adjust the settings for you! All you have to do is choose a scene mode for whatever you want to take, whether a landscape, a night scene, or a portrait-style image, and the camera will set the best exposure and white balance.
There's nothing to it – just press the shutter button!



Selecting a scene mode according to the situation

This function allows you to select from 25 **SCENE** modes set to the shooting conditions. When you select a scene according to the situation or conditions, the camera automatically selects the optimal settings.

● SCENE mode

D image stabilization

Reduces blurring in images caused by shaking or motion when the image was taken. Photos shot in dark areas may appear grainy.

Portrait

Suitable for taking portrait pictures. This mode accentuates the skin texture of the portrait subject.

Landscape

Suitable for taking pictures of landscapes and other outdoor scenes. Blues and greens are vividly reproduced.

Landscape + Portrait

Suitable for taking pictures of your subject against a distant background. Blues, greens, and skin tones are vividly reproduced.

Night Scene

Suitable for taking pictures in the evening or at night. The camera sets a slower shutter speed than is used in normal shooting.

Sports

Suitable for capturing fast-moving action. Even fast-moving subjects appear to be stationary.

Night + Portrait

Suitable for taking pictures of your subject against a distant night scene. The camera sets a slower shutter speed than is used in normal shooting.

Indoor

Suitable for taking pictures of people indoors. The atmosphere of the background is also vividly reproduced.

Candle

Suitable for capturing the atmosphere of a candle-lit scene. Warm colors are reproduced.

Self Portrait

Suitable for taking self-portrait pictures.

Available Light Portrait

Suitable for shooting subjects in low light conditions without a flash.

Sunset

Suitable for taking pictures of the evening sunlight. Reds and yellows are vividly reproduced.

Fireworks

Suitable for taking pictures of fireworks displays. The camera sets a slower shutter speed than is used in normal shooting.

Museum

Suitable for taking pictures in museums and other places where flash photography and sounds are prohibited.

Behind Glass

Suitable for shooting a subject through glass.

Cuisine

Suitable for taking pictures of food. Food colors are vibrantly reproduced.

Documents

Suitable for taking pictures of documents or time schedules. The contrast between the text and background is enhanced.

Auction

Suitable for taking pictures of merchandise. The camera takes 3 pictures in succession at the best size while automatically adjusting the exposure.

Shoot & Select1 / Shoot & Select2

Pictures are taken in succession. You can erase unwanted pictures before saving the ones you want. Suitable for taking moving subjects.

Shoot & Select1 ( ) Focus is locked at the first frame.
Shoot & Select2 ( ) Takes pictures in succession, adjusting the focus 1 frame at a time.

Beach

Suitable for taking pictures on a sunny day at the beach. You can take pictures of your subject against a beautiful sky or landscape.

Snow

Suitable for taking pictures in the snow. You can take pictures of your subject against a beautiful sky or snow scene.

Under Water Wide1 / Under Water Wide2

Suitable for taking pictures of scenery under water. Be sure to use the underwater housing.

Under Water Wide1 ( ) Takes pictures, adjusting the focus 1 frame at a time.
Under Water Wide2 ( ) The focus is fixed at a distance of approximately 5 m (16.4 ft.). This distance may change depending on the water quality.

Under Water Macro

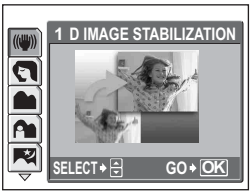
Suitable for taking pictures under water in macro mode. Be sure to use the underwater housing.

Note

- If you select a scene that does not use the flash or a scene with a slower shutter speed, camera movement may occur. It is recommended that you use a tripod to prevent camera movement.
- In order to produce specialized effects, some scenes limit control of certain functions. For details, refer to “Functions available in shooting modes and scenes” (P. 184).

SCENE

1 Press ⟲⟳ to select a scene, and press ⊛.

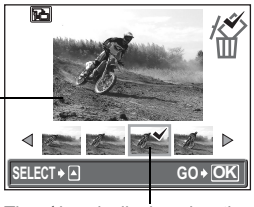


2 Take the picture.

- For shoot & select, hold down the shutter button.
- To change the scene, press ⟳. Or, press ⊛ to display the top menu and select [SCENE].

● When [SHOOT & SELECT1] or [SHOOT & SELECT2] is selected

- After taking your pictures, the screen for selecting which pictures to erase is displayed.



The highlighted picture is enlarged.

The ✓ icon is displayed on the selected picture.

① Press ⟲⟳ to select the picture you want to erase, and press ⟳. Repeat Step ① to erase multiple pictures.

② When you have selected all the unwanted pictures, press ⊛.

③ Select [YES], and press ⊛.

- The selected pictures are erased, and only the remaining pictures are saved.

Zooming in on your subject

Using the zoom

You can zoom in on your subject using the optical zoom and digital zoom. With the optical zoom, the image is enlarged on the CCD when the lens magnification is changed, and the image is formed by all the CCD pixels. With the digital zoom, the area at the center of the image captured by the CCD is cropped and enlarged. Because digital zoom takes a small area of the picture and enlarges it, the picture becomes grainy as the digital zoom magnification increases.

The following zoom magnifications are available on this camera.

Optical zoom 3× (equivalent to 38 mm to 114 mm on a 35 mm camera)

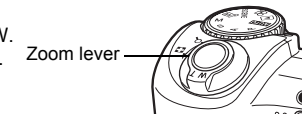
Optical zoom × digital zoom Max. 15× ([🎥] mode: Max. 9×)

Note that camera movement is likely to occur at higher magnifications.

AUTO P A S M MY SCENE 🎥

1 Push or pull the zoom lever.

- Zoom out: Push the zoom lever toward W.
- Zoom in: Pull the zoom lever toward T.



Using the digital zoom

P A S M MY SCENE 🎥

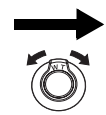
Top menu ▶ [MODE MENU] ▶ [CAMERA] ▶ [DIGITAL ZOOM] ▶ [ON]

☞ “Using the menus” (P. 17)

- For 🎥: Top menu ▶ [DIGITAL ZOOM] ▶ [ON]

1 Pull the zoom lever toward T.

Optical zoom



Digital zoom

The white area of the zoom indicator indicates the optical zoom. If the [DIGITAL ZOOM] is set to [ON], a red area is displayed on the zoom indicator. When you reach the limit of the optical zoom, the digital zoom is enabled.

Note

- Taking a picture with the digital zoom may cause the picture to appear grainy.

Using macro/super macro mode

Focusing is usually slow when you get close to a subject (wide-angle: 20 cm/7.9 in. to 50 cm/19.7 in.; telephoto: 30 cm/11.8 in. to 50 cm/19.7 in.). However, in macro mode focusing is performed quickly.

- This mode lets you shoot from as close as 20 cm/7.9 in. to your subject (when the optical zoom is at the greatest wide-angle).
- This mode lets you shoot from as close as 2 cm/0.8 in. to your subject. In the [] mode, normal shooting is also possible, but the position of the zoom is fixed automatically and cannot be adjusted.

AUTO P A S M SCENE

Top menu ▶ [MODE MENU] ▶ [CAMERA] ▶ [] ▶ [] / []

“Using the menus” (P. 17)

- For AUTO: Top menu ▶ [] ▶ [] / []

Note

- During super macro mode, the zoom is not available.
- If you are close to a subject, the picture in the viewfinder is different from the area that the camera actually records. For macro mode shooting, use the monitor.
- During super macro shooting, the built-in flash is not available.

Flash shooting

Select the flash mode best suited to the light conditions and the effect you want to achieve.

Flash working range
W (max.): Approx. 0.4 m to 3.8 m (1.3 ft. to 12.5 ft.)
T (max.): Approx. 0.4 m to 2.2 m (1.3 ft. to 7.2 ft.)

Auto-flash (No indication)

The flash fires automatically in low light or backlight conditions.

Red-eye reduction flash (⊙)

The light from the flash may make the subject's eyes appear red in the picture. The red-eye reduction flash mode reduces this phenomenon by emitting pre-flashes before firing the regular flash.

The subject's eyes appear red.

Note

- After the pre-flashes, it takes about 1 second before the shutter is released. Hold the camera firmly to avoid camera movement.
- Effectiveness may be limited if the subject is not looking directly at the pre-flashes, or if the shooting range is too far. Individual physical characteristics may also limit effectiveness.

Red-eye fill-in flash (⊙ϟ)

The flash always fires after pre-flashes for red-eye reduction are emitted.

Fill-in flash (ϟ)

The flash fires regardless of the available light. This mode is useful for eliminating shadows on the subject's face (such as shadows from tree leaves), in a backlight situation, or for correcting the color shift produced by artificial lighting (especially fluorescent light).

Note

- The fill-in flash may not have the desired effect under excessively bright light.

Flash off (ϟ)

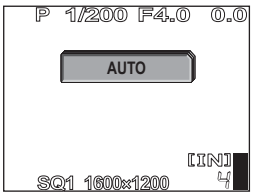
The flash does not fire even in low light conditions. Use this mode in situations where flash photography is not desired or is prohibited. You can also use this mode when shooting landscapes, sunsets, and other subjects outside the range of the flash.

Note

- Since a slow shutter speed is automatically selected in low light situations when in the flash off mode, the use of a tripod is recommended to prevent your pictures from being blurred by camera movement.

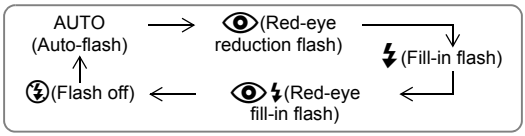
AUTO P A S M SCENE

1 Press the ⚡ button repeatedly to set the flash mode.

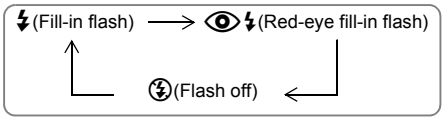


☞"Direct buttons" (P. 12)

- After 2 seconds of non-operation, the selection is set and the mode selection screen disappears.
- Each time you press ⚡ (flash mode), the flash mode changes in the following order.



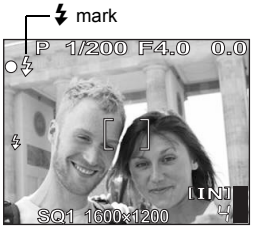
- In **S** mode and **M** mode, the flash mode changes in the following order.



2 Press the shutter button halfway.

- In conditions where the flash will fire, the ⚡ mark lights (flash stand-by).

3 Press the shutter button fully to take the picture.



TIPS

The orange lamp blinks or [BUSY] is displayed.

→ The flash is charging. Wait until the orange lamp beside the viewfinder turns off.

Note

- The flash does not fire in the following situations:
  High-speed sequential shooting, auto bracketing, super macro shooting, and panorama shooting.
- The flash may not give you the optimum result in macro mode with the zoom set to wide-angle (W). Check the resulting picture on the monitor.

Flash intensity control

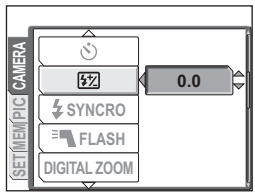
You can adjust the amount of light emitted by the flash.
In some situations, you may get better results by adjusting the light emission. Examples include small subjects, distant backgrounds, or situations when increased contrast is desired.

P A S M SCENE

Top menu ▶ [MODE MENU] ▶ [CAMERA] ▶ [ ]

☞"Using the menus" (P. 17)

1 Press ▲▼ to adjust the flash intensity, and press OK.



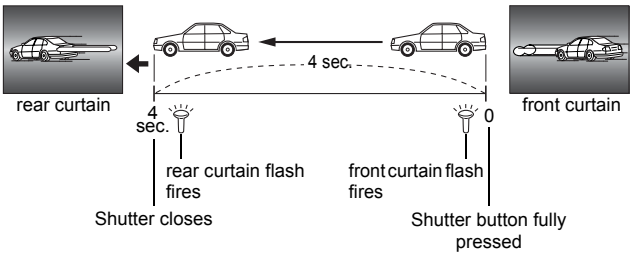
Synchro SYNC2

Select the flash timing.

SYNC1 (front curtain) The flash fires right after the shutter fully opens.

SYNC2 (rear curtain) With the rear curtain, the flash fires just before the shutter closes. You can use this setting to create interesting effects in your picture, such as expressing the movement of a car by showing the tail-lights streaming backwards. The slower the shutter speed, the better the effects turn out. If the shutter speed is faster than 1/200, the flash fires automatically with the front curtain.

When the shutter speed is set to 4 sec.



P A S M SCENE

Top menu ▶ [MODE MENU] ▶ [CAMERA] ▶ [SYNCRO] ▶ [SYNC1] / [SYNC2] ☞"Using the menus" (P. 17)

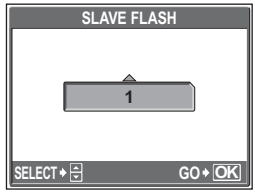
Slave flash photography (FLASH)

This setting is for when using a commercially available slave flash that is synchronized with the camera flash.
The amount of light emitted by the flash can be adjusted in 10 levels. The flash can fire in sequential shooting mode, but the interval between shots will be longer if a high emission level is set.
Flash mode automatically changes to [⚡] for all flash modes except [⊛].

P A S M

Top menu ▶ [MODE MENU] ▶ [CAMERA] ▶ [FLASH] ▶ [SLAVE]
☞ "Using the menus" (P. 17)

1 Select an emission level from [1] to [10], then press ⊛.



Recording movies

This function allows you to record movies.

1 Compose your picture.

- You can use the zoom lever to enlarge your subject.

Remaining recording time

2 Press the shutter button fully to start recording.

- The orange lamp blinks while the movie is being saved.
- During movie recording, the mark lights red.

3 Press the shutter button again to stop recording.

- When the remaining recording time has been used up, recording stops automatically.
- When there is space in the internal memory or the card, the remaining recording time (P. 29) is displayed, and the camera is ready to shoot.

TIPS

To record audio with the movie

→ Set [🎙] to [ON]. ☞"Recording sound with movies" (P. 49)

To use the zoom during movie recording

→ If you set [🎙] to [OFF], you can use the optical zoom during movie recording. ☞"Recording sound with movies" (P. 49)

→ Set [DIGITAL ZOOM] to [ON]. ☞"Using the digital zoom" (P. 40)

Note

- The remaining recording time may drop rapidly during recording. Try using the internal memory or card again after formatting it with your camera.
  ☞"Formatting the internal memory or card (MEMORY FORMAT/FORMAT)" (P. 104)
- In mode, the flash and manual focus are not available.

Camera movement compensation

This function reduces the blur incurred by camera movement when taking movies. The area in which the picture is captured by the CCD is adjusted according to movement of the subject, thereby enabling recording of the picture with reduced blurring of the subject. The images are recorded slightly larger when [] is set to [ON].

Top menu ▶ [] ▶ [ON] ☞"Using the menus" (P. 17)

1 Take the picture.

Displayed during camera movement compensation.

Note

- When the camera moves a lot or the subject is moving quickly, the compensation function may not operate effectively.
- When taking pictures with the camera stabilized, set [] to [OFF], otherwise the movement of the subject may cause the image on the screen to move.

Recording sound with movies

Sound can be recorded while shooting a movie.

Top menu ▶ [MODE MENU] ▶ [🎙] ▶ [ON] ☞"Using the menus" (P. 17)

Note

- If the camera is more than 1 m (3.3 ft.) away from the source of the sound, sound may not be recorded clearly by the built-in microphone.

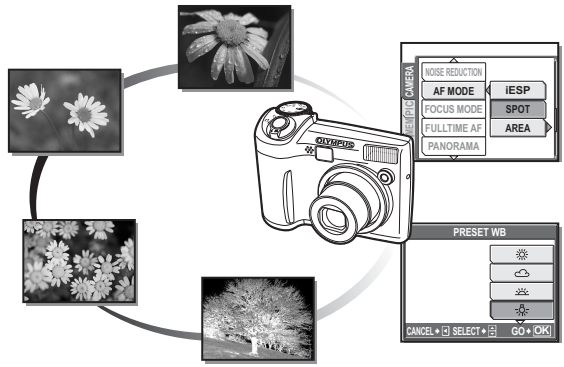
4 Advanced shooting functions

Letting the camera select the optimal settings is simple and easy, but if you want, you can be a lot more creative. Now that you have mastered basic operation, you can start enjoying your camera's more advanced functions. You can adjust the shooting conditions manually and try out different effects.

For example, when taking pictures of flowers on a tree, by reducing the aperture value and focusing on the branch of the tree nearest to you, you can make the flowers stand out against a blurred background.

If it is evening, you can add a touch of color to the night sky. By setting the white balance to (tungsten light), you can give the dark sky a blue tone.

Adjusting a single function can produce unexpected effects. Try various settings and discover all sorts of new possibilities.



Changing the aperture value for shooting pictures

This function allows you to set the aperture manually. The camera sets the shutter speed automatically. By decreasing the aperture value (F-number), the camera will focus within a smaller range, producing a picture with a blurred background. Increasing the value forces the camera to focus over a wider range, resulting in increased depth of field in which both the subject and the background are in focus. Use this mode when you want to play with how the background is depicted.

Aperture value (F-number) is decreased.

Aperture value (F-number) is increased.

1 Press ⟲⟳ to set the aperture value.

Aperture value

⟲ : Closes the aperture (increases the aperture value).

⟳ : Opens the aperture (decreases the aperture value).

Adjustment range:
Wide angle : F2.8 to F8.0
Telephoto : F4.9 to F8.0

- When the exposure is correct, the aperture value is displayed in green. When the correct exposure cannot be obtained, the aperture value is displayed in red.

Changing the shutter speed for shooting pictures

This function allows you to set the shutter speed manually. The camera sets the aperture automatically. Set the shutter speed according to the subject and the type of effect you want.

Setting a fast shutter speed lets you capture fast-moving action as though it was stopped in motion.

Setting a slow shutter speed blurs a moving subject, giving the impression of movement.

1 Press ⟲⟳ to set the shutter speed.

Shutter speed

⟲ : Sets the shutter speed faster.

⟳ : Sets the shutter speed slower.

Shutter speed range:
1/2 to 1/1000
(when [NOISE REDUCTION] is set to [ON]: up to 4 seconds)

- When the exposure is correct, the shutter speed is displayed in green. When the correct exposure cannot be obtained, the shutter speed is displayed in red.

Note

- To avoid camera movement, you are recommended to use a tripod when taking pictures requiring a slow shutter speed.

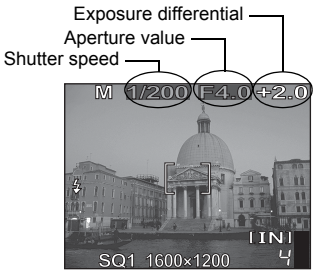
Changing the aperture value and shutter speed for shooting pictures M

This mode gives you more creative control, allowing you to set the aperture and shutter speed manually.

1 Adjust the aperture and shutter speed.

- : Closes the aperture (increases the aperture value).
- : Opens the aperture (decreases the aperture value).
- : Sets the shutter speed faster.
- : Sets the shutter speed slower.

Adjustment range:
Aperture value : F2.8 to F8.0
Shutter speed : 15" to 1/1000 (when aperture value is F8.0: up to 1/2000)



- The exposure compensation that the camera calculates and the difference between the exposure are shown in a range of +/- 3.0 EV.
- When the exposure differential is displayed in red, this range has been exceeded.

? TIPS

To take long exposure (bulb) shots

1 Press and set shutter speed to BULB.
2 The shutter remains open as long as the shutter button is pressed.
- The maximum time that it can remain open is 8 minutes.

! Note

- To avoid camera movement, you are recommended to use a tripod when taking pictures requiring a slow shutter speed.
- The shutter speeds that can be set vary depending on the aperture value.

My Mode

You can take pictures using settings registered in [MY 1 MY MODE 1] to [MY 4 MY MODE 4]. Only the settings in [MY 1 MY MODE 1] are preset. ☞ “Customizing the camera (MY MODE SETUP/SHORT CUT/ CUSTOM BUTTON)” (P. 115)

Top menu ▶ [MODE MENU] ▶ [CAMERA] ▶ [MY 1/2/3/4] ▶ [MY 1 MY MODE 1] / [MY 2 MY MODE 2] / [MY 3 MY MODE 3] / [MY 4 MY MODE 4] ☞ “Using the menus” (P. 17)

Focusing applications

AF mode (iESP/SPOT/AREA)

This function allows you to select how the camera focuses on your subject.

iESP The camera determines which subject within the screen to focus on. Even when the subject is not in the center of the screen, focusing is possible.
SPOT Focus selection is based on the subject within the AF target mark.
AREA Move the AF target mark to select the area you want to focus on to take a picture.

Subject suitable for [iESP]

Subject suitable for [SPOT]

P A S M MY SCENE

Top menu ▶ [MODE MENU] ▶ [CAMERA] ▶ [AF MODE] ▶ [iESP] / [SPOT] / [AREA] ☞"Using the menus" (P. 17)

●When [AREA] is selected

1 Use the arrow pad to move the AF target mark to the area where you want to focus.
- The AF target mark is displayed in green while the subject is moving. You can take pictures while the AF target mark is displayed in green.

2 Hold down OK.
- The position of the AF target mark is set.
- To change the position of the AF target mark after it is set, hold down OK.

3 Take the picture.
- The AF target mark remains at the same position even after the picture is taken.

Note
- The AF target mark returns to the center position when the mode dial is turned or the zoom lever is operated.

Manual focus (FOCUS MODE) MF

If the subject cannot be accurately focused on with auto focus, set manual focus and manually adjust the focus.

P A S M SCENE

Top menu ▶ [MODE MENU] ▶ [CAMERA] ▶ [FOCUS MODE] ▶ [MF]

☞"Using the menus" (P. 17)

1 Press ▲▼ to set the focus.

- During operation, the focus area is enlarged. This lets you check whether the focus area is correct.
- The distance indicator on the left of the monitor is used for reference.

2 Hold down OK.

- The focus is locked at the distance you have set, and MF is displayed in red on the monitor.
- When OK is held down while MF is displayed, the distance indicator is displayed and the focus can be adjusted.

3 Take the picture.

- Set [FOCUS MODE] to [AF] to return to auto focus.

? *TIPS*

When you move the cursor to the top of the distance indicator, but the camera cannot focus at ∞ (infinity).

→ Press ▲▼ to make fine adjustments to the cursor position while viewing the monitor.

! Note

- Using the zoom lever after setting the focus may compromise the setting. Perform the setting again.

Fulltime AF

ON Fulltime AF keeps the subject in front of the lens in focus at all times, without having to press the shutter button halfway. The focusing time is reduced, so you won't miss snapshot opportunities. Also, the subject is automatically kept in focus during movie recording.

OFF Press the shutter button halfway to focus.

P A S M SCENE

Top menu ▶ [MODE MENU] ▶ [CAMERA] ▶ [FULLTIME AF] ▶ [ON] / [OFF]

☞"Using the menus" (P. 17)

Note

- Setting [FULLTIME AF] to [ON] consumes more battery power.
- [FULLTIME AF] cannot be used when [🎤] is set to [ON] in 🎬 mode.

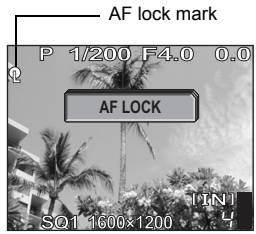
AF lock

The focus position can be locked. AF lock refers to locking the focus position. Be sure to register the AF lock function to the **AEL** button (custom button) before use. ☞"Customizing the camera (MY MODE SETUP/SHORT CUT/CUSTOM BUTTON)" (P. 115)

P A S M SCENE

1 Position the AF target mark on the desired subject and press the AEL button.

- The focus is locked, and the AF lock mark is displayed.
- To reset the AF lock, press the **AEL** button again. Press the **AEL** button to engage and disengage the AF lock.

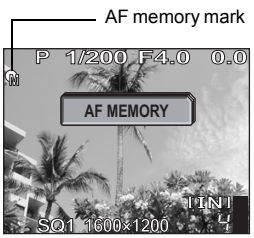


2 Press the shutter button fully.

TIPS

To save the locked focus position after taking a picture (AF memory)

→ Hold down the **AEL** button for more than 1 second to display the AF memory mark. The focus is locked while the AF memory mark is displayed. Press the **AEL** button again to cancel the AF memory.



When the AF lock was canceled even though it was engaged

→ Do not operate any of the buttons or the mode dial after performing the AF lock. Doing so will cancel the AF lock.

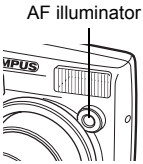
→ When the camera reactivates after sleep mode, or the power or monitor is turned off, the AF lock is canceled.

Note

- If the zoom is operated after engaging the AF lock, the picture may be out of focus. Engage the AF lock after operating the zoom.

AF illuminator

This function enables you to focus on dark subjects with the auto focus.



ON When you press the shutter button halfway, the AF illuminator lights automatically to illuminate the subject.

OFF The AF illuminator does not light.

AUTO P A S M MY SCENE

Top menu ▶ [MODE MENU] ▶ [SETUP] ▶ [AF ILLUMINATOR] ▶ [ON] / [OFF] ☞"Using the menus" (P. 17)

Note

- When a conversion lens is attached to the camera, or when taking pictures of a subject 50 cm (1.6 ft.) or closer, the AF illuminator lights but the subject may not be in focus.

Changing the area for measuring the brightness of a subject (ESP/[•])

When taking pictures against backlight, the face of the subject may appear darker. With spot metering, the picture can be taken based on the brightness at the center of the monitor without being affected by the light in the background.

ESP Meters the brightness at the center of the monitor and the surrounding area separately to create a picture with balanced brightness. When taking pictures against strong backlight, the center of the picture may appear dark.

[•] Only the center of the monitor is metered. Suitable for taking a picture of the subject in the center of the monitor against backlight.

[◎] Meters the brightness over a wide area with emphasis on the center of the screen. This method is used when you do not want to allow surrounding light to affect the picture.

P A S M SCENE

Top menu ▶ [MODE MENU] ▶ [CAMERA] ▶ [ESP/[•]] ▶ [ESP] / [[•]] / [[◎]]
☞ "Using the menus" (P. 17)

AE lock AEL

This function is suitable for situations when optimum exposure is difficult to achieve, such as when there is excessive contrast between the subject and the surroundings.

Ex:

The landscape appears dark because the sky is bright.

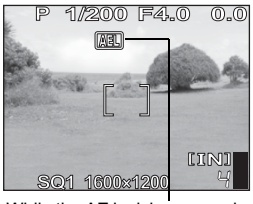
Recompose your picture so there is not much sky in the frame and lock the exposure. Compose your picture again with the sky in the frame and take the picture.

P A S SCENE

1 Compose your picture so that you can lock the exposure, and press the AEL button.

☞ “Direct buttons” (P. 12)

- The meter reading is saved.
- To reset the AE lock, press the **AEL** button again. Press the **AEL** button to engage and disengage the AE lock.
- When a function other than AE lock is assigned to the **AEL** button, reassign the function. ☞“Customizing the camera (MY MODE SETUP/SHORT CUT/ CUSTOM BUTTON)” (P. 115)



While the AE lock is engaged, AEL is displayed.

2 Position the AF target mark on the subject you want to focus on, and press the shutter button halfway.

- The green lamp lights.

3 Press the shutter button fully.

- The AE lock is automatically canceled when the picture is taken.

? *TIPS*

To save the locked meter reading after taking a picture (AE memory)

→ After setting the AE lock in Step 1, or after pressing the shutter button halfway in Step 2, press the **AEL** button for more than 1 second. MEMO is displayed. The exposure is saved while MEMO is displayed. Press the **AEL** button again to cancel the AE memory.

When the AE lock was canceled even though it was engaged

→ Do not operate any of the buttons or the mode dial after performing the AE lock. Doing so will cancel the AE lock.

→ When the camera reactivates after sleep mode, or the power or monitor is turned off, the AE lock is canceled.

Changing ISO sensitivity (ISO)

The higher the ISO, the better the camera's light sensitivity and ability to shoot in low light conditions. However, high sensitivity introduces noise into the resulting picture, which may give it a grainy appearance.

AUTO	Sensitivity is automatically adjusted according to the conditions of the subject.
64/100/200/ 400/800	With a low ISO setting, you can shoot clear, sharp images in daylight. With a high ISO setting, you can shoot in dark places.

P A S M SCENE

Top menu ▶ [MODE MENU] ▶ [CAMERA] ▶ [ISO] ▶ [AUTO] / [64] / [100] / [200] / [400] / [800] ☞"Using the menus" (P. 17)

Note

- ISO is based on the sensitivity of normal camera film.

Changing picture brightness

In some situations, you may get better results when the exposure that the camera sets is compensated (adjusted) manually. You can adjust the exposure in the range of ±2.0 EV in 1/3 EV steps. When the exposure is changed, you can check the result on the monitor.

P A S SCENE

1 **Press ⊛.**

- Adjust toward [+] to brighten the image or [–] to darken the image.

2 **Take the picture.**

TIPS

- Often, bright subjects (such as snow) turn out darker than their natural colors. Adjust toward [+] to make these subjects closer to their real shades. To prevent the picture from getting brighter, adjust toward [–] when shooting dark subjects.

Note

- Sometimes, using the flash may not produce the brightness (exposure) that was intended.
- The effects of exposure compensation may be limited when the surroundings of the subject are extremely bright or dark.

Adjusting the white balance WB

The color of the subject differs depending on lighting conditions. For instance, when daylight, the setting sun or tungsten lighting are reflected on white paper, the shade of white produced will be slightly different for each. By adjusting the white balance, you can achieve more natural-looking colors.

AUTO Automatically adjusts the white balance for any light source.

PRESET Selects the white balance according to the light source.

- For shooting on a sunny day.
- For shooting on a cloudy day.
- For shooting in evening sunlight.
- For shooting under a tungsten light (3,000K)*.
- For shooting under a daylight fluorescent lamp (6,700K)*. This type of lamp is used mainly in homes.
- For shooting under a neutral white fluorescent lamp (5,000K)*. This type of lamp is generally used in desk lamps, etc.
- For shooting under a white fluorescent lamp (4,200K)*. This type of lamp is generally used in offices, etc.

* The color temperature values (K) are approximate. They are not an accurate indication of color.

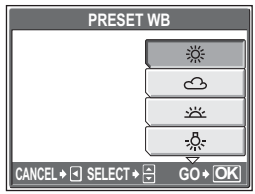
For setting a more precise white balance than preset white balance can provide. To set the optimum white balance for the shooting conditions, point the camera at a white object under the light source you want to use and save the white balance.

P A S M SCENE

Top menu ▶ [MODE MENU] ▶ [PICTURE] ▶ [WB] ▶ [AUTO] / [PRESET] / [ ] ☞ "Using the menus" (P. 17)

● When [PRESET] is selected

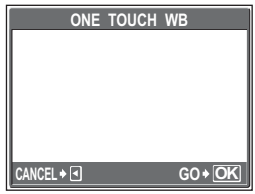
1 **Select a white balance setting, and press OK.**



● When [ ] is selected

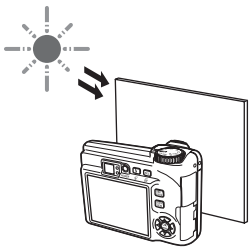
1 **With the [ONE TOUCH WB] screen displayed, point the camera at a sheet of white paper.**

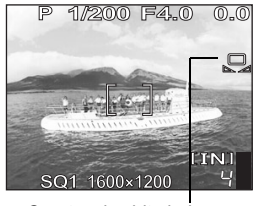
- Position the paper so that it fills the screen, making sure there are no shadows.



2 **Press OK.**

- The new white balance is set.





One-touch white balance

TIPS

- You can also select a different preset white balance from the one recommended and enjoy interesting results on the monitor.

Note

- White balance may not be effective under some special light sources.
- When taking pictures with the white balance on a setting other than [AUTO], play back the picture and check the colors on the monitor.
- When the flash is fired with a white balance setting other than [AUTO], colors may appear different in the resulting picture from the colors you see on the monitor.
- When setting the white balance by pointing the camera at a sheet of white paper, the correct setting may not be obtained if the light reflected by the paper is too bright or too dark.

White balance compensation WB±

This function allows you to set the white balance compensation and make fine changes to the currently set white balance.

P A S M MY SCENE

Top menu ▶ [MODE MENU] ▶ [PICTURE] ▶ [WB±]

☞"Using the menus" (P. 17)

1 Press ▲▼ to adjust the white balance, and press OK.

- The color becomes more blue each time you press ▲, and more red each time you press ▼.
- The white balance can be adjusted in 7 increments in both the [RED] and [BLUE] directions.

WB compensation indicator

Adjusting a picture for recording (SHARPNESS/ CONTRAST/SATURATION)

These functions adjust the sharpness, contrast and color strength of a picture.

SHARPNESS This function adjusts the sharpness of the picture.

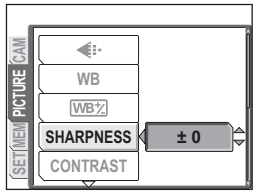
CONTRAST This function adjusts the contrast of the picture. For example, you can make pictures with marked differences in light and shadow softer, and those with less differences more vivid.

SATURATION This function adjusts the color strength.

P A S M SCENE

Top menu ▶ [MODE MENU] ▶ [PICTURE] ▶ [SHARPNESS] / [CONTRAST] / [SATURATION] ☞"Using the menus" (P. 17)

1 Press ▲▼ to adjust the hue between [-5] and [+5].



When [SHARPNESS] is selected

● When [SHARPNESS] is selected

- Toward + : The image contours are emphasized, making the image appear sharper and more vivid. Use this setting when you want to print pictures. If you adjust the sharpness too far toward +, noise may become conspicuous in the picture.
- Toward – : The image contours are softened. Use this setting when you want to edit images on a computer.

● When [CONTRAST] is selected

- Toward + : The light and dark areas are defined more clearly, making the image look crisper.
- Toward – : The light and dark areas become less defined, giving the image a softer impression. Use this setting when you want to edit images on a computer.

● When [SATURATION] is selected

- Toward + : Colors become stronger.
- Toward – : Colors become weaker.

Reducing picture noise (NOISE REDUCTION) NR

When shooting in dark places, shutter speeds become slower as there is less light focused on the CCD. During long exposures, signals are generated by parts of the CCD where no light is focused and are recorded on the picture as noise. When [NOISE REDUCTION] is set to [ON], the camera automatically reduces this noise to produce clearer pictures.

ON

Noise is reduced. Shooting time takes twice as long as usual. Noise reduction can only be used when the shutter speed is slower than 1/2 sec.

OFF

Noise is not reduced. Noise may be conspicuous at slow shutter speeds.

The purpose of these pictures is to illustrate the effects of noise reduction. They are not actual pictures taken with this camera.

P A S M MY SCENE

Top menu ▶ [MODE MENU] ▶ [CAMERA] ▶ [NOISE REDUCTION] ▶ [ON] / [OFF] ☞"Using the menus" (P. 17)

Note

- When [NOISE REDUCTION] is set to [ON], the camera implements noise-reducing processes after each shot. For this reason, shooting time is approximately twice as long as usual. During this time, the next picture cannot be taken.
- This function may not work effectively with some shooting conditions or subjects.

5 Additional shooting functions

At a party or family gathering...
Use the self-timer function to take group photos at school reunions or birthday parties.

At a sporting event...
Use sequential shooting mode to take a succession of shots of a goal and pick out the best ones later.

In the outdoors or at scenic sites...
Use panorama mode to capture a beautiful mountain range or impressive building.

Sequential shooting

There are 4 sequential shooting modes: sequential shooting, high speed sequential shooting, AF sequential shooting and auto bracketing (**BKT**).

▭	Shoots 1 frame at a time when the shutter button is pressed.
▭▭	Focus, exposure and white balance are locked at the first frame. The sequential shooting speed varies depending on the record mode setting.
HI ▭▭	Pictures can be taken at a faster speed than normal sequential shooting.
AF ▭▭	Adjusts the focus 1 frame at a time. The shooting speed is slower than for normal sequential shooting.
BKT	Takes pictures sequentially while changing the exposure for each frame. The focus and white balance are locked at the first frame.

Ex: When the exposure differential is set to [±1.0] with [**BKT**] and the number of frames is set to [×3]

-1.0

0.0

+1.0

●▭▭ / HI▭▭ / AF▭▭

P A S M SCENE

Top menu ▸ [MODE MENU] ▸ [CAMERA] ▸ [DRIVE] ▸ [▭▭] / [HI▭▭] / [AF▭▭]

☞"Using the menus" (P. 17)

1 Take the picture.

- Press the shutter button fully and keep it pressed. The camera will take pictures in sequence until you release the button. You can only take 2 frames at a time with high speed sequential shooting.
- You are recommended to use the viewfinder for sequential shooting. During high speed sequential shooting, the subject does not appear on the monitor.

●BKT

P A S SCENE

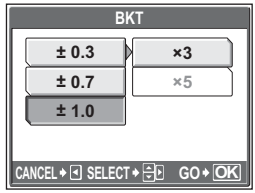
Top menu ▸ [MODE MENU] ▸ [CAMERA] ▸ [DRIVE] ▸ [BKT]

☞"Using the menus" (P. 17)

1 **Select the exposure differential and number of shots and press ⊛.**

2 **Take the picture.**

- Press the shutter button fully and keep it pressed to shoot the preset number of pictures. You can stop shooting at any time by releasing the shutter button.



Note

- In [**HI**] and [**BKT**] modes, the built-in flash is not available.
- Sequential shooting is not available when [NOISE REDUCTION] is set to [ON].
- [] and [**AF**] are not available when record mode is set to [RAW].
- As the maximum shutter speed is set to 1/30 sec., adequate exposure is not obtained when shooting a dark subject in modes other than **S** and **M**.
- If the battery power is low and blinks during sequential shooting, shooting stops and the camera starts saving the pictures you have taken. Whether or not all of the shots are saved depends on how much battery power remains.

Timelapse shooting

Shooting is automatically repeated as defined by set conditions. This is suitable, for example, for taking regular pictures of the opening of a flower bud. If you will be taking pictures over a long period, make sure to use fully charged batteries or the AC adapter.

P A S M SCENE

Top menu ▶ [MODE MENU] ▶ [CAMERA] ▶ [TIMELAPSE] ▶ [ON]

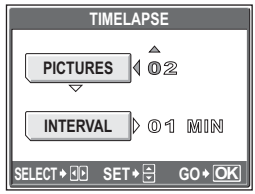
☞ “Using the menus” (P. 17)

1 **Set [PICTURES] and [INTERVAL].**

: Selects [PICTURES] and [INTERVAL].
Sets the value.

: Selects the setting.

Adjustment range
Number of shots : 2 to 99
Shooting interval : 1 to 99 minutes in 1 minute intervals



2 **Press ⊛.**

3 **Press the shutter button.**

- The first picture is taken, and the pictures thereafter are automatically taken.
- During timelapse, the mark lights.
- When recording to either the internal memory or the card, and after the first picture is taken, the camera enters sleep mode. The camera automatically reactivates from sleep mode 4 seconds prior to taking the next picture.
- When the preset number of pictures is taken, the camera automatically turns off.

Note

- If any of the following operations occur during sleep mode, the camera cancels the timelapse mode and returns to normal shooting.
  Opening the battery compartment cover, opening the card cover, connecting the camera to a computer, operating the shutter button, arrow pad or other button.
- From 4 seconds prior to taking a picture until the time the picture has been taken, all operation buttons, the mode dial and zoom lever do not function.
- If the internal memory/card becomes full or the battery power runs out during sleep mode, a warning is displayed, timelapse stops and the camera automatically turns off.

Self-timer shooting

This function lets you take pictures using the self-timer. Fix the camera securely on a tripod for self-timer shooting. This function is useful for taking pictures when you want to be included in the photograph.

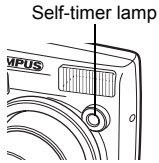
AUTO P A S M MY SCENE

Top menu ▶ [MODE MENU] ▶ [CAMERA] ▶ [⏲] ▶ [ON]

☞"Using the menus" (P. 17)

For AUTO: Top menu ▶ [⏲] ▶ [ON]

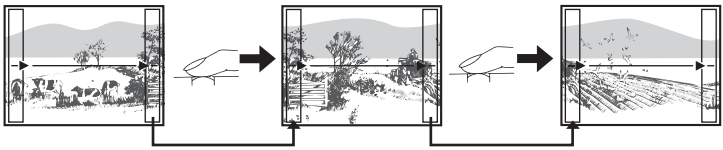
1 **Press the shutter button fully to take the picture.**



- Pressing the shutter button halfway locks the focus and exposure.
- The self-timer lamp lights for approximately 10 seconds, then starts blinking. After blinking for approximately 2 seconds, the picture is taken.
- The self-timer mode is automatically canceled after one shot.

Panorama shooting

You can take advantage of panorama shooting with Olympus cards (xD-Picture Card). Panorama shooting lets you connect pictures with overlapping edges into a single panoramic picture, using the OLYMPUS Master software.



The part of the previous picture where it will be joined to the next picture does not remain in the frame on the edge of the screen. You have to remember what the part in the frame looked like and take the next picture so it overlaps. Compose your shots so that the right edge of the previous picture overlaps the left edge of the next picture if you are connecting pictures from left to right (or vice versa if you are connecting pictures from right to left).

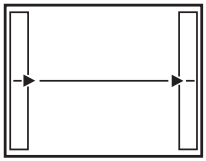
P SCENE

Top menu ▶ [MODE MENU] ▶ [CAMERA] ▶ [PANORAMA]

☞ “Using the menus” (P. 17)

1 **Use the arrow pad to choose at which edge you want to connect the pictures.**

- : The next picture is connected at the right edge.
- : The next picture is connected at the left edge.
- : The next picture is connected at the top.
- : The next picture is connected at the bottom.



Connects pictures from left to right

2 **Make sure that the edges of the pictures overlap, then take the pictures.**

- The focus, exposure and white balance are set by the first picture. Do not select an extremely bright subject (such as the sun) for the first picture.
- You cannot adjust the zoom after the first picture.
- Panorama shooting is possible for up to 10 pictures. When you have taken 10 pictures, a warning mark is displayed.

3 **Press OK to exit panorama shooting.**

Note

- Panorama mode is not available when there is no card in the camera. Panorama mode is only available with Olympus cards.
- During panorama shooting, the flash, sequential shooting, and recording sound with still pictures are not available.
- The camera itself cannot connect panorama pictures. The OLYMPUS Master software is necessary to connect the pictures.

Recording sound with still pictures

Sound can be recorded when taking still pictures. Recording starts about 0.5 seconds after the shutter is released and lasts about 4 seconds. When this function is enabled, sound is recorded automatically every time you take a picture.

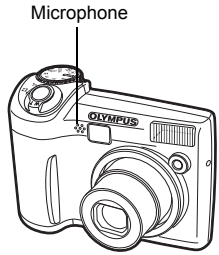
P A S M MY SCENE

Top menu ▶ [MODE MENU] ▶ [CAMERA] ▶ [] ▶ [ON]

“Using the menus” (P. 17)

1 Take the picture.

- When recording starts, aim the camera microphone at the source of the sound you want to record.



TIPS

- [♪] is displayed when still pictures with sound are played back. During playback, sound is output from the speaker. The volume can be adjusted. ☞"Setting camera sounds (■))/BEEP/SHUTTER SOUND/VOLUME)" (P. 109)
- Sound can be added later to still pictures. Recorded sound can also be re-recorded. ☞"Adding sound to still pictures" (P. 88)

Note

- If the microphone is farther than 1 m (3.3 ft.) from the subject, sound may not be recorded properly.
- Pictures cannot be taken during sound recording.
- Recording sound with still pictures is not available during sequential shooting, panorama shooting, or timelapse.
- Sound recording may also pick up camera noises, such as button operations, shutter movement, etc.
- Sound recording may not be possible if there is insufficient space in the internal memory or the card.

Changing the monitor display (DISP./GUIDE)

This function displays histograms and lines that help you to compose your pictures. You can hide the shooting information from being displayed on the monitor and turn off the monitor.

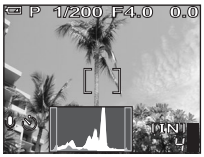
AUTO P A S M SCENE

1 Press the DISP./GUIDE button repeatedly.

- Press the **DISP./GUIDE** button to change the display in the following order. ☞"Direct buttons" (P. 12)

Displays the regular shooting information.

Displays only the AF target mark.



Displays a histogram showing the luminance distribution of the picture.
This screen is not displayed in 🎥 mode.
This screen is not displayed if [📊] is [OFF].

Displays lines. The lines displayed will change depending on the [FRAME ASSIST] setting.
This screen is not displayed in 🎥 mode.
This screen is not displayed if [FRAME ASSIST] is [OFF].

The monitor turns off.

TIPS

- Information is displayed on the monitor when the display is changed or menu operations are performed. For details about displayed information, refer to "Monitor Symbols & icons" in the "Basic Manual".

Histogram

This displays the histogram. You can take pictures while checking the contrast of the subject, thereby enabling you to closely control the exposure.

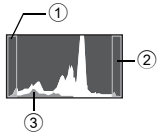
OFF	The histogram is not displayed.
ON	The histogram is displayed.
DIRECT	Displays the black and white areas directly on the picture. When [DIRECT] is enabled, the histogram in playback mode is also displayed directly on the picture.

AUTO P A S M SCENE

Top menu ▶ [MODE MENU] ▶ [SETUP] ▶ [▲] ▶ [OFF] / [ON] / [DIRECT]
☞ "Using the menus" (P. 17)

? *TIPS*

How to read the histogram



① If the peak fills too much of the frame, the image will appear mostly black.
② If the peak fills too much of the frame, the image will appear mostly white.
③ The part indicated in green in the histogram shows the luminance distribution within the AF target mark.

Black and white areas

Red dots: Mainly white area
Blue dots: Mainly black area

! Note

- The histogram displayed during shooting may differ from the histogram displayed during playback.

Frame assist

This displays the frame assist and determines the type of frame assist. Refer to this when composing your picture.

OFF Does not display lines.
▦ Displays horizontal and vertical lines.
⊠ Displays diagonal lines.

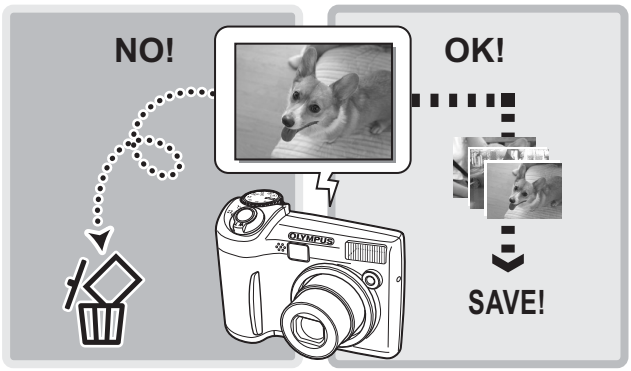
AUTO P A S M SCENE

Top menu ▶ [MODE MENU] ▶ [SETUP] ▶ [FRAME ASSIST] ▶ [OFF] / [▦] / [⊠]
☞ "Using the menus" (P. 17)

Playback

6

With film-type cameras, you cannot see the pictures you have taken until the film has been developed. And aren't you sometimes disappointed with the results when you do eventually see them? Pictures of blurred scenery or someone with their eyes shut. Or maybe you took several pictures of the same scene because you weren't sure whether they would come out or not. That's no way to record important memories!
With a digital camera, you can review your pictures immediately. Just play the picture back as soon as you've taken it. If you don't like what you see, erase and take it again. So don't be afraid of pictures not coming out well-just keep on pressing that shutter button!



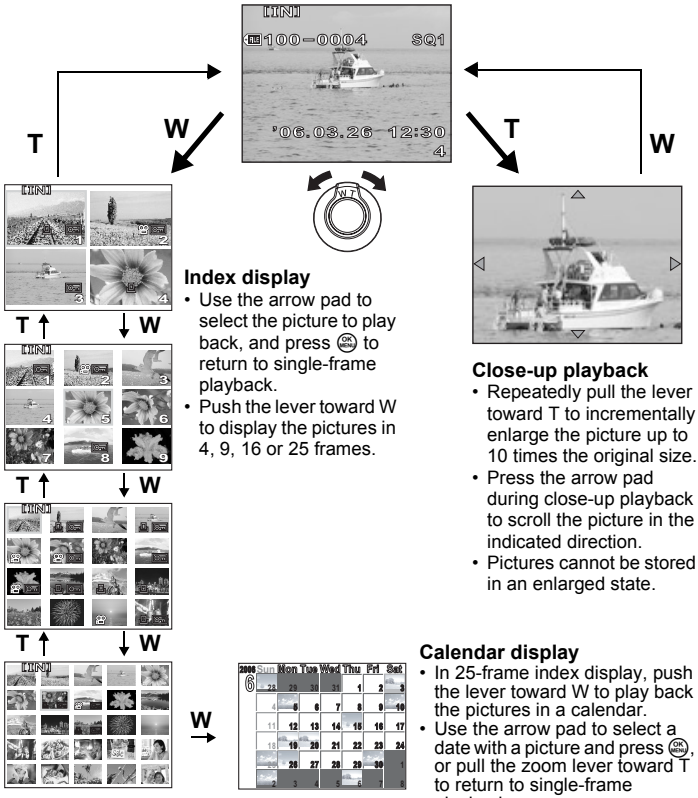
Playing back still pictures

The pictures on a card are played back if a card is inserted in the camera. Remove the card to play back pictures stored in the internal memory.

- The last picture taken is displayed on the monitor (single-frame playback).
- You can use this function in shooting mode by pressing the **QUICK VIEW** button.
- Use the arrow pad to browse the pictures.

1 Push or pull the zoom lever toward W or T.

- You can view the pictures close up (close-up playback), as a thumbnail (index display), or in calendar form (calendar display).



Index display

- Use the arrow pad to select the picture to play back, and press OK to return to single-frame playback.
- Push the lever toward W to display the pictures in 4, 9, 16 or 25 frames.

Close-up playback

- Repeatedly pull the lever toward T to incrementally enlarge the picture up to 10 times the original size.
- Press the arrow pad during close-up playback to scroll the picture in the indicated direction.
- Pictures cannot be stored in an enlarged state.

Calendar display

- In 25-frame index display, push the lever toward W to play back the pictures in a calendar.
- Use the arrow pad to select a date with a picture and press OK, or pull the zoom lever toward T to return to single-frame playback.

Playing back pictures in a calendar (CALENDAR)

This function allows you to display the pictures you have taken in a calendar format. When a still picture or movie is recorded, it is automatically registered to the calendar by the date of recording.
You need to have the date and time set on the camera before shooting if you want your pictures to be played back on the correct date with the calendar display.
☞"Setting the date and time" (P. 113)

Top menu ▶ [CALENDAR] ☞"Using the menus" (P. 17)

- A monthly calendar is displayed. Select the date of the pictures to play back and press ⊛. Each frame is played back.

Picture rotation

Pictures taken with the camera held vertically are displayed horizontally. This function lets you turn such pictures 90° clockwise or counterclockwise so that they are displayed vertically.

Select the picture that you want to rotate and display the top menu.

Top menu ▶ [MODE MENU] ▶ [PLAY] ▶ [⟲] ▶ [+90°] / [0°] / [-90°]
☞"Using the menus" (P. 17)

- For album playback mode: Top menu ▶ [ALBUM MENU] ▶ [⟲] ▶ [+90°] / [0°] / [-90°]

+90° 0° -90°

Note

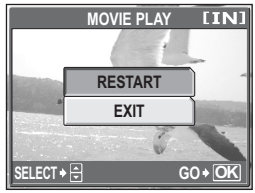
- The following pictures cannot be rotated.
  Movies, protected pictures, computer-edited pictures, and pictures taken with another camera
- New picture orientations are saved even when the power is turned off.

Playing back movies

This function lets you playback movies. You can fast forward the movie or play it back one frame at a time.
Select the movie that you want to play, then display the top menu.

Top menu ▶ [MOVIE PLAY] ☞"Using the menus" (P. 17)

- The movie is played back. When playback ends, the camera automatically returns to the beginning of the movie and displays the [MOVIE PLAY] menu.



● Operations during movie playback

Change the volume or speed during playback.
- : Increases the volume.
- : Reduces the volume.
- : Each time you press the button, the playback speed changes in the following order: 2×; 20×; and back to 1×.
- : Plays the movie in reverse. Each time you press the button, the playback speed changes in the following order: 2×; 20×; and back to 1×.
- (OK/MENU) : Pauses the movie.

● Operations during pause

You can play back the movie frame by frame.
- : Displays the first frame.
- : Displays the last frame.
- : Displays the next frame.
- : Displays the previous frame.
- (OK/MENU) : The [MOVIE PLAY] screen is displayed.

Playing time/Total recording time

Note

- The orange lamp blinks while the camera is reading the movie. Reading of movies may take some time. Do not open the card cover while the orange lamp is blinking. Doing so may damage the data in the internal memory or the card and render the internal memory or the card unusable.

Selecting the position to begin movie playback (INDEX PLAY)

This function displays a movie with a time index, allowing you to play back the movie from the desired frame.

Top menu ▶ [MODE MENU] ▶ [PLAY] ▶ [INDEX PLAY]

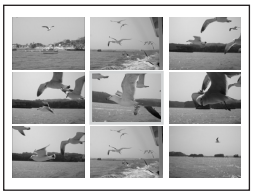
☞"Using the menus" (P. 17)

1 **Press ⟲⟳⟨⟩ to select a frame.**

- Push or pull the zoom lever to change the number of displayed index frames.

2 **Press OK MENU.**

- Movie playback begins from the selected frame.



Playing back albums

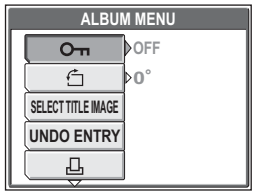
Pictures recorded to the card can be organized by sorting them into albums.
Pictures stored in the internal memory cannot be entered in albums.
You can enter up to 100 pictures into each of the available 12 albums.
Using the provided OLYMPUS Master software, you can enter pictures from a computer into an album on a card.

● Album playback mode menu

To enable album playback mode, select [ALBUM] on the top menu in normal playback mode. Press ⊛ in album playback mode to display the album playback mode top menu. ☞"Menus" (P. 14)

ALBUM MENU

Select [ALBUM MENU] on the top menu in album playback mode to display the [ALBUM MENU] screen.



Functions that can be set in [ALBUM MENU]

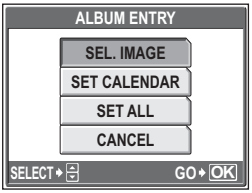
Function	Ref. Page	Function	Ref. Page
O-n	P. 101	凸	P. 131
↶	P. 77	VOLUME	P. 109
SELECT TITLE IMAGE	P. 83	▭!	P. 112
UNDO ENTRY	P. 84	VIDEO OUT	P. 100

Adding pictures to an album (ALBUM ENTRY)

You can enter pictures or movies in an album.

Top menu ▸ [MODE MENU] ▸ [PLAY] ▸ [ALBUM ENTRY]
☞"Using the menus" (P. 17)

1 Select the album entry method.

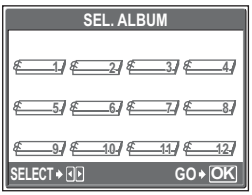


SEL. IMAGE Selects one frame at a time for entry.

SET CALENDAR Selects a date on the calendar display, and enters one picture from that date into the album.

SET ALL Selects all still pictures, or all movies, or all protected pictures, and enters them into one album.

2 Press ◁▷ to select an album, and press OK.



● SEL. IMAGE

3 Press △▽◁▷ to select a picture to enter the album, and press OK.

- ✓ is displayed on the selected picture.
- Press OK again to cancel the selection.
- Repeat Step 3 to enter multiple pictures.
- Pull the zoom lever toward T to display a picture using single-frame playback.

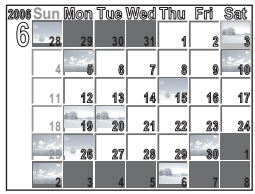
4 After selecting all the pictures to enter, hold down OK.

5 Select [YES], and press OK.

● SET CALENDAR

3 **Press ▲▼◀▶ to select the date with pictures to enter in the album, and press ⊛.**

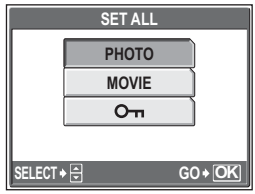
4 **Select [YES], and press ⊛.**



● SET ALL

3 **Select [PHOTO], [MOVIE] or [🔑], and press ⊛.**

4 **Select [YES], and press ⊛.**



Note

- The same picture cannot be entered in multiple albums.

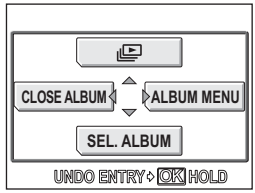
Viewing pictures in albums (SEL. ALBUM)

Top menu ▸ [ALBUM] ☞ “Using the menus” (P. 17)

1 **Press ⊛.**

- The top menu of the album playback mode is displayed.

2 **Select [SEL. ALBUM].**



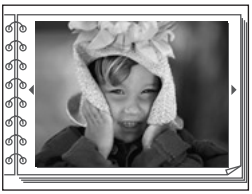
3 **Press ⏪⏩⏮⏭ to select an album to view, and press OK.**

- The title image for each album is displayed.

4 **Use the arrow pad to display the picture you want.**

⏭ : Displays the next picture.
⏮ : Displays the previous picture.
⏪ : Jumps to the picture 10 frames back.
⏩ : Jumps to the picture 10 frames ahead.

- When playing back still pictures, pull the zoom lever toward T for close-up playback. During close-up playback, use the arrow pad to scroll.



5 **To exit album display, press OK to display the top menu, and select [CLOSE ALBUM].**

? *TIPS*

- To display pictures from other albums, select [SEL. ALBUM] from the top menu, and select the album to view.

Selecting an album cover (SELECT TITLE IMAGE)

You can change the title image (first frame in album) displayed on the [SEL. ALBUM] screen.
Select the album to change, then display the top menu.

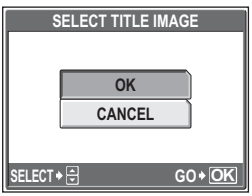
Top menu ▶ [ALBUM MENU] ▶ [SELECT TITLE IMAGE]

☞"Using the menus" (P. 17)

1 **Press ⏮⏭ to select the picture for the title image, and press OK.**

2 **Select [OK], and press OK.**

- The title image for the album is changed.



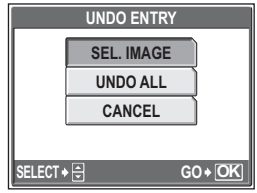
Undoing album entries (UNDO ENTRY)

You can cancel pictures entered in an album. The picture will still be saved on the card. This only removes the picture from the album.
Select the album containing the picture to undo, then display the top menu.

Top menu ▶ [ALBUM MENU] ▶ [UNDO ENTRY]

☞"Using the menus" (P. 17)

1 **Select the album undo method, and press ⊛.**

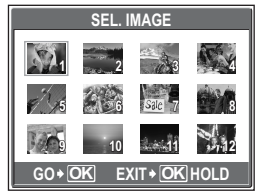


SEL. IMAGE Selects one frame at a time to undo.
UNDO ALL This will undo all images in the album.

●SEL. IMAGE

2 **Press ▲▼◀▶ to select the pictures to undo, and press ⊛.**

- ✓ is displayed on the selected picture.
- Press ⊛ again to cancel the selection.
- Repeat Step 2 to undo multiple pictures.
- Pull the zoom lever toward T to display a picture using single-frame playback.

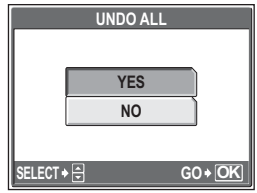


3 **After selecting all the pictures to undo, hold down ⊛.**

4 **Select [YES], and press ⊛.**

●UNDO ALL

2 **Select [YES], and press ⊛.**



Erasing pictures from albums

You can erase pictures entered in an album. Unlike undoing album pictures, this erases the picture from the card.
Display and erase a picture from an album.

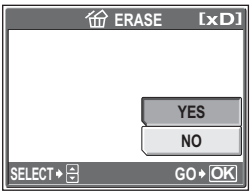
Note

- You cannot erase protected pictures. Cancel protection before erasing such pictures. ☞"Protecting pictures" (P. 101)
- Once erased, pictures cannot be restored. To only remove pictures from the album, use [UNDO ENTRY]. ☞"Undoing album entries (UNDO ENTRY)" (P. 84)

1 **Select the picture you want to erase, and press the 🗑 button.**

☞ "Direct buttons" (P. 12)

2 **Select [YES], and press OK.**



Slideshow

This function displays still pictures stored in the internal memory or the card one after another. You can select from 9 different transition effects. Only the first frame of each movie is displayed.

NORMAL
The pictures are played back one at a time.

SCROLL
The current picture scrolls off the screen to the left as the next picture scrolls onto the screen from the right.

FADER
The current picture gradually fades out as the next picture gradually fades in.

ZOOM DOWN
The camera gradually zooms out from the current picture until it disappears into the center of the screen. The next picture then appears in the center of the screen, and the camera gradually zooms in on the picture until it is full size.

ZOOM UP
The camera gradually zooms in on the current picture until it disappears. The next picture is displayed with the center enlarged, and the camera then gradually zooms out until the picture is full size.

CHECKERBOARD
The next picture is displayed with a mosaic pattern that gradually disappears to reveal the picture.

BLINDS
The next picture is displayed over the current picture with an effect that resembles a set of blinds opening.

SWIVEL
The current picture is reduced in size and spins off the screen to left as the next picture spins onto the screen from the right and is enlarged to full size. The three-dimensional movement of the two pictures resembles a spinning cube.

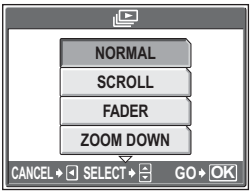
RANDOM
The slideshow is displayed with a randomly selected transition effect for each frame ([SCROLL], [FADER], [ZOOM DOWN], [ZOOM UP], [CHECKERBOARD], [BLINDS], or [SWIVEL]).

Top menu ▶ [MODE MENU] ▶ [PLAY] ▶ [🖼] ☞"Using the menus" (P. 17)

- For album playback mode: Top menu ▶ [🖼]

1 Select a transition effect for the slideshow, and press OK.

- The slideshow starts.
- The slideshow will not stop until you cancel it by pressing OK.



Note

- You are recommended to use the optional AC adapter when running a slideshow for a long period of time. The camera will enter sleep mode after about 30 minutes and stop the slideshow automatically.

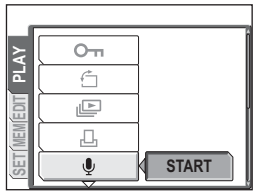
Adding sound to still pictures

Sound can be added to a still picture that you have already taken. You can also re-record over the sound that has already been recorded. Total recording time per picture is approximately 4 seconds.

Select the still picture to which you want to add sound and display the top menu.

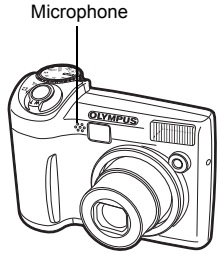
Top menu ▶ [MODE MENU] ▶ [PLAY] ▶ [🎙] ☞"Using the menus" (P. 17)

1 **Press ◎ to display [START].**



2 **Aim the camera microphone toward the sound you want to record, and press OK to start recording.**

- The [BUSY] bar is displayed during recording.



Note

- If the microphone is farther than 1 m (3.3 ft.) from the subject, sound may not be recorded properly.
- If you re-record the sound, the original sound is erased.
- Sound recording is not possible if there is insufficient space in the internal memory or on the card.
- The microphone may pick up the sound of buttons operated.
- Once sound is added to a picture, it is not possible to erase the sound. In this case, make a re-recording with silence.

Editing still pictures (RAW DATA EDIT/ / /REDEYE FIX/BLACK & WHITE/SEPIA)

This function lets you edit still pictures and save them as new pictures. The following editing operations are possible.

RAW DATA EDIT Adjusts the pictures recorded in raw data format and stores them as new pictures in JPEG format. You can check the result on the monitor and make sure the desired effect has been achieved.
The following items can be edited with [RAW DATA EDIT].

Item	Settings	Ref. Page
◀⋮·	SHQ, HQ, SQ1, SQ2	P. 26
WB	AUTO, PRESET, *	P. 61
WB	RED7 – BLUE7	P. 63
SHARPNESS	-5 – +5	P. 64
CONTRAST	-5 – +5	P. 64
SATURATION	-5 – +5	P. 64

* Only available when the picture is taken with [WB] set to [ ].

Changes the image size to 640 × 480 or 320 × 240 and saves the picture as a new file.

Crops part of a picture and saves it as a new file.

REDEYE FIX Corrects the red-eye phenomenon caused by the flash making the subject's eyes appear red in the picture, and saves the picture as a new file.

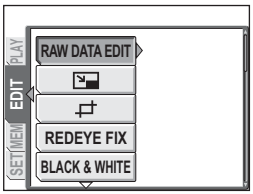
BLACK & WHITE Changes the picture to black and white and saves it as a new file.

SEPIA Changes the picture to sepia and saves it as a new file.

Select the picture that you want to edit and display the top menu. To use the [RAW DATA EDIT] function, select a picture taken with [◀⋮·] set to [RAW].

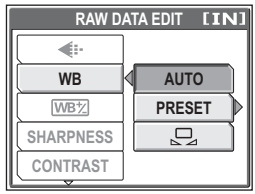
Top menu ▶ [EDIT] ☞"Using the menus" (P. 17)

1 Select [RAW DATA EDIT], [ ], [ ], [REDEYE FIX], [BLACK & WHITE], or [SEPIA], and press ⊛.



2 Edit the picture.

●When [RAW DATA EDIT] is selected

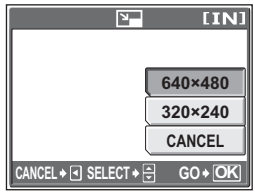


① Select an editing option, and press OK.

② When you have finished editing the data, press OK.

③ Select [OK], and press OK.

●When [ ] is selected



① Select [640 × 480] or [320 × 240], and press OK.

●When [ ] is selected

① Select [NEW FILE], and press OK.

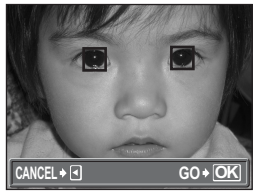
② Adjust the trimming position and size.

↔↕	Adjusts the position of the picture.
Zoom lever	Adjusts the size of the picture.

③ Press OK.

④ Select [OK], and press OK.

●When [REDEYE FIX] is selected

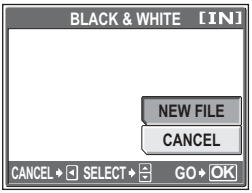


① Select [NEW FILE], and press OK.
- After the [BUSY] bar is displayed, the areas targeted for correction are framed in blue.

② Press OK.
- When the blue frame is not displayed, red-eye correction is not available.

●When [BLACK & WHITE] or [SEPIA] is selected

① Select [NEW FILE], and press OK.



When [BLACK & WHITE] is selected

- The [BUSY] bar is displayed and after the image is saved, the camera returns to the playback mode.

Note

- Editing with [RAW DATA EDIT], [ ], [ ], [REDEYE FIX], [BLACK & WHITE], or [SEPIA] is not possible in the following cases:
  If there is insufficient space in the internal memory or the card, or for movies, pictures edited with a computer, pictures taken with another camera, or pictures in raw data format (not including [RAW DATA EDIT]).

Creating composite pictures (FRAME/ TITLE/CALENDAR/LAYOUT)

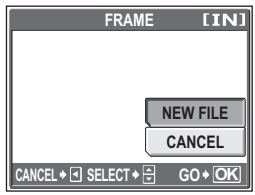
This function lets you add frames, titles or a calendar to still pictures and save them as new pictures. You can also create an index layout of selected pictures and save it as a new picture. The following picture composite operations are possible.

FRAME	Adds a selected frame to a picture and saves it as a new picture.
TITLE	Adds a selected title to a picture and saves it as a new picture.
CALENDAR	Adds a calendar to a picture and saves it as a new picture.
LAYOUT	Creates an index layout of pictures selected in normal playback, album playback or calendar display, and saves it as a new picture.

Top menu ▶ [EDIT] ▶ [FRAME] / [TITLE] / [CALENDAR] / [LAYOUT]

☞"Using the menus" (P. 17)

1 Select [NEW FILE], and press ⊛.



When [FRAME] is selected

2 Add a decoration.

●When [FRAME] is selected

① Press ⊛ to select a frame, and press ⊛.

② Press ⊛ to select the picture to which you want to add the frame, and press ⊛.

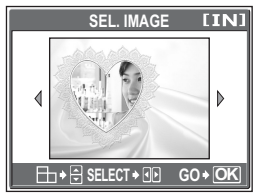
- Press ⊛ to rotate the picture 90° clockwise or counterclockwise.

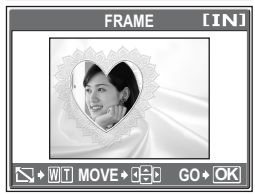
③ Adjust the position and size of the picture, and press ⊛.

⊛⊛ Adjusts the position of the picture.

Zoom lever Adjusts the size of the picture.

When you select a frame that can accommodate more than one picture, repeat Steps ② and ③ to add pictures.



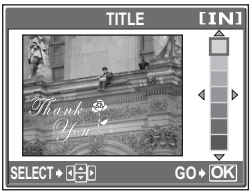


●When [TITLE] is selected

① Press ▲▼ to select a picture, and press OK.
② Press ▲▼ to select a title, and press OK.
- Press ◀▶ to rotate the picture 90° clockwise or counterclockwise.

③ Adjust the position and size of the title, and press OK.
◀▶▲▼ Adjusts the position of the title.
Zoom lever Adjusts the size of the title.

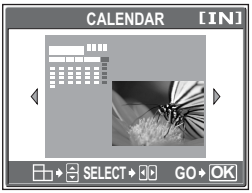
④ Press ◀▶▲▼ to select the color of the title, and press OK.

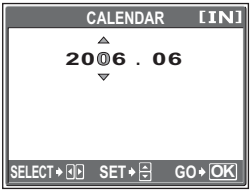


●When [CALENDAR] is selected

① Press ▲▼ to select a picture, and press OK.
② Press ▲▼ to select a calendar, and press OK.
- Press ◀▶ to rotate the picture 90° clockwise or counterclockwise.

③ Set the date of the calendar, and press OK.
◀▶ Changes the settings for year and month.
▲▼ Alternates between the year and month settings.

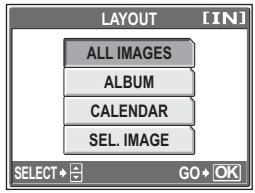




●When [LAYOUT] is selected

① Press ⊛ to select a layout, and press ⊛.

② Select the type of layout picture, and press ⊛.



ALL IMAGES All pictures in the internal memory or the card are added to the layout.
☞ Go to Step 3.

ALBUM All pictures in the selected album are added to the layout.

CALENDAR Select the pictures you want to add to the layout by day from the monthly display.

SEL. IMAGE Select the pictures to be added to the layout individually.

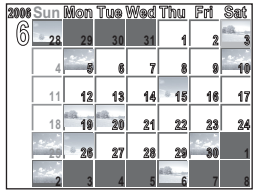
③ Select the pictures.

When [ALBUM] is selected

- Press ⊛ to select an album, and press ⊛.

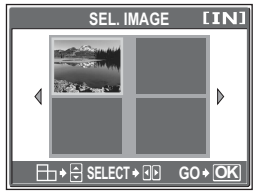
When [CALENDAR] is selected

- Use the arrow pad to select the day, and press ⊛.



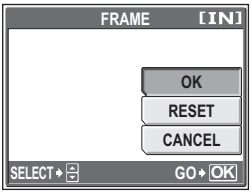
When [SEL. IMAGE] is selected

- Press ⊛ to select a picture, and press ⊛. Repeat this step and select additional pictures until the screen in Step 3 is displayed.
- Press ⊛ to rotate the picture 90° clockwise or counterclockwise.



3 **Select [OK], and press ⊛.**

- The [BUSY] bar is displayed and after the image is saved, the camera returns to the playback mode.



When [FRAME] is selected

Note

- Creating a composite picture with [FRAME], [TITLE], [CALENDAR] or [LAYOUT] is not possible in the following cases:
  If there is insufficient space in the internal memory or the card, or for movies, pictures edited with a computer, pictures taken with another camera, or pictures in raw data format.

TIPS

- You can change frames and titles using OLYMPUS Master software. For details, refer to the “Help” guide and the OLYMPUS Master reference manual.

Adjusting pictures (BRIGHTNESS/ SATURATION)

This function lets you adjust still pictures and save them as new pictures. The following adjustment operations are possible.

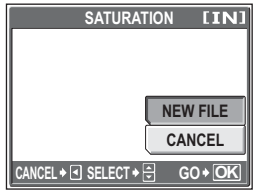
BRIGHTNESS	Adjusting the brightness of a picture and saves the picture as a new file.
SATURATION	Adjusting the color strength of a picture and saves the picture as a new file.

Select the picture that you want to adjust and display the top menu.

Top menu ▶ [EDIT] ▶ [BRIGHTNESS] / [SATURATION]

☞“Using the menus” (P. 17)

1 **Select [NEW FILE], and press ⊛.**



When [SATURATION] is selected

2 **Press ▲▼ to adjust the brightness or saturation, and press ⊛.**

3 **Select [OK], and press ⊛.**

- The [BUSY] bar is displayed and after the image is saved, the camera returns to the playback mode.

When [SATURATION] is selected

Note

- Adjusting pictures with [BRIGHTNESS] or [SATURATION] is not possible in the following cases:
  If there is insufficient space in the internal memory or the card, or for movies, pictures edited with a computer, pictures taken with another camera, or pictures in raw data format.

Editing movies

This function lets you create indexes and edit movies.

INDEX 9 frames extracted from a movie are displayed as an index and stored as a still picture.
EDIT This function lets you extract parts of the movie that you want.

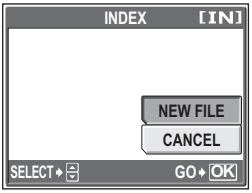
Select a movie that you want to edit and display the top menu.

Creating an index

Top menu ▶ [MODE MENU] ▶ [EDIT] ▶ [INDEX]

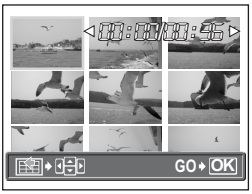
☞"Using the menus" (P. 17)

1 **Select [NEW FILE], and press ⊛.**

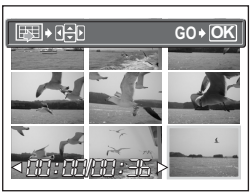


2 **Select the first frame of the index, and press ⊛.**

- : Jumps to the first frame of the movie.
- : Jumps to the last frame of the movie.
- : Displays the next frame. The movie can be played continuously by holding the button down.
- : Displays the previous frame. The The movie can be played continuously in reverse by holding the button down.

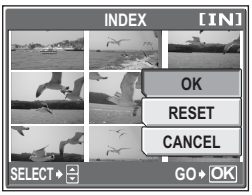


3 **As in Step 2, select the last frame of the index, and press ⊛.**



4 **Select [OK], and press ⊛.**

- The [BUSY] bar is displayed. The 9 frames extracted from the movie are displayed in index format, and the camera returns to playback mode. The index is stored as a new picture.



Note

- The index is stored as a still picture in a different record mode from the original movie.
- The interval between the frames that are automatically extracted varies depending on the length of the movie.
- You cannot create an index if there is insufficient memory space in the internal memory or the card.

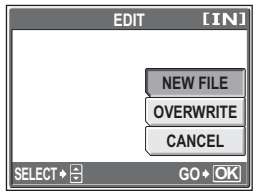
Editing a movie

Top menu ▶ [MODE MENU] ▶ [EDIT] ▶ [EDIT] ☞"Using the menus" (P. 17)

1 Select [NEW FILE] or [OVERWRITE], and press OK.

NEW FILE Stores the edited movie as a new movie.

OVERWRITE Stores the edited movie with the same name as the original. The original movie is not stored.



2 Select the first frame of the part you want to keep, and press OK.

- : Jumps to the first frame of the movie.
- : Jumps to the last frame of the movie.
- : Displays the next frame. The movie can be played continuously by holding the button down.
- : Displays the previous frame. The movie can be played continuously in reverse by holding the button down.

3 **As in Step 2, select the last frame of the part you want to keep and press ⊛.**

4 **Select [OK], and press ⊛.**

- The [BUSY] bar is displayed and after the edited movie is stored as a new movie or the original movie is overwritten, the camera returns to the playback mode.

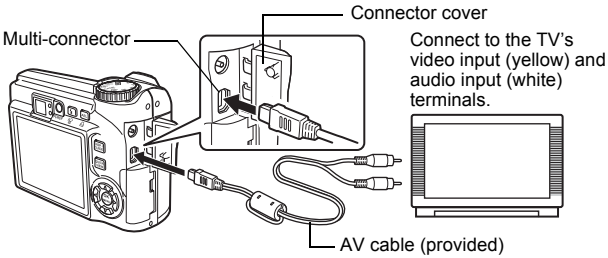
Note

- You cannot select [NEW FILE] if there is insufficient memory space in the internal memory or the card.
- The editing process of long movies is more time-consuming.

Playing back pictures on a TV

Use the provided AV cable to play back recorded images on your TV. You can play back both still pictures and movies on your TV.

1 **Make sure that the TV and camera are turned off. Connect the multi-connector on the camera to the video input terminal on the TV using the provided AV cable.**


Connector cover
Multi-connector
Connect to the TV's video input (yellow) and audio input (white) terminals.
AV cable (provided)

2 **Turn the TV on, and set it to video input mode.**

- For details of switching to video input, refer to your TV's instruction manual.

3 **Press the POWER button to turn the camera on.**

- The last picture taken is displayed on the TV. Use the arrow pad to select the picture you want to display.
- The camera's monitor stays off.

TIPS

- The close-up playback, index display and slideshow functions can also be used on a TV screen.
- You are recommended to use the optional AC adapter when playing back pictures on a TV.

Note

- Make sure that the camera's video output signal is the same as the TV's video signal. ☞"Video output" (P. 100)
- Be sure to use the provided AV cable to connect the camera to the TV.
- The picture may appear off-center on the TV screen.

Video output

You can select [NTSC] or [PAL] according to your TV's video signal type. Use this setting when playing back pictures on a TV in a foreign country. Select the [VIDEO OUT] signal before connecting the AV cable. If you select the wrong video signal type, you will not be able to play back the recorded pictures properly on the TV.

Top menu ▶ [MODE MENU] ▶ [SETUP] ▶ [VIDEO OUT] ▶ [NTSC] / [PAL]
☞"Using the menus" (P. 17)

- For album playback mode: Top menu ▶ [ALBUM MENU] ▶ [VIDEO OUT] ▶ [NTSC] / [PAL]

TIPS

TV video signal types by country/region

Check the video signal type before connecting the camera to the TV.

NTSC North America, Taiwan, Korea, Japan

PAL European countries, China

Protecting pictures

You are recommended to protect important pictures to avoid accidentally erasing them.
Protected pictures cannot be erased by the single-frame/all-frame erase function, but they are all erased by formatting.

Select the picture you want to protect and display the top menu.

Top menu ▶ [MODE MENU] ▶ [PLAY] ▶ [🔑] ▶ [ON] / [OFF]

☞"Using the menus" (P. 17)

- For album playback mode: Top menu ▶ [ALBUM MENU] ▶ [🔑] ▶ [ON] / [OFF]

- To cancel protection, select the protected picture and select [OFF].

Displayed when a picture is protected.

Copying pictures in the internal memory to the card (BACKUP)

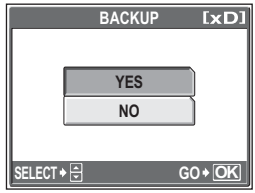
Pictures recorded to the internal memory can be copied to a card (backup). A backup does not erase the pictures in the internal memory.
You need an optional card to use the backup function. Insert a card into the camera before using this function.

Top menu ▶ [MODE MENU] ▶ [CARD] ▶ [BACKUP]

☞"Using the menus" (P. 17)

1 **Select [YES], and press ⊛.**

- All image data in the internal memory is copied to the card.



Note

- If there is not enough space left on the card, [CARD FULL] is displayed and backup is canceled.
- If the battery power runs out while the camera is backing up the data, the image data may be lost or damaged. It is recommended that you use the AC adapter.
- Never open the card cover or remove the batteries while the camera is backing up data. Also, do not connect or disconnect the AC adapter. The internal memory or the card may not operate properly.

Erasing pictures

This function erases recorded pictures. Pictures can be erased either one at a time or all the pictures in the internal memory or on the card.

Note

- You cannot erase protected pictures. Cancel protection before erasing such pictures.
- Once erased, pictures cannot be restored. Check each picture before erasing to avoid accidentally erasing pictures you want to keep. ☞"Protecting pictures" (P. 101)
- When a picture in an album is erased, it is also erased from the album.

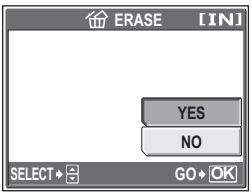
Single-frame erase

1 **Select the picture you want to erase, and press the 🗑 button.**

☞ “Direct buttons” (P. 12)

2 **Select [YES], and press OK.**

- The displayed picture is erased.



All-frame erase

Top menu ▶ [MODE MENU] ▶ [MEMORY (CARD)] ▶ [ALL ERASE]

☞ “Using the menus” (P. 17)

1 **Select [YES], and press OK.**

- All the pictures are erased.

Formatting the internal memory or card (MEMORY FORMAT/FORMAT)

This function lets you format the internal memory or the memory card. Formatting prepares the card or internal memory to receive data.

- Make sure there is no card inserted in the camera when formatting the internal memory.
- Be sure that the card is inserted in the camera when formatting the card.
- Before using non-OLYMPUS cards or cards which have been formatted on a computer, you must format them with this camera.

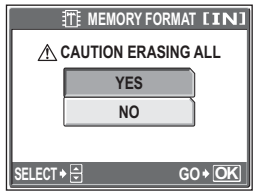
All existing data, including protected pictures, are erased when the internal memory or the card is formatted. Make sure that you save or transfer important data to a computer before formatting the internal memory or the card.

AUTO P A S M SCENE

Top menu ▶ [MODE MENU] ▶ [MEMORY (CARD)] ▶ [MEMORY FORMAT (FORMAT)] ☞"Using the menus" (P. 17)

1 Select [YES], and press OK.

- The [BUSY] bar is displayed while the internal memory or the card is formatted.



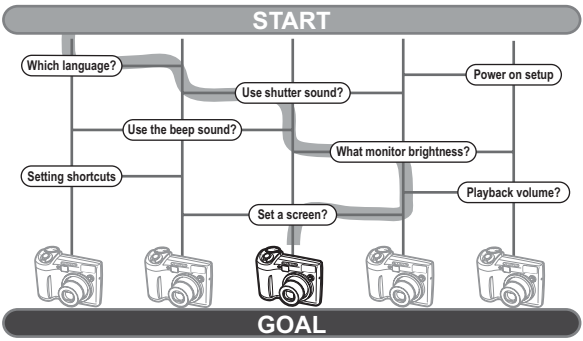
Note

- Do not do any of the following during formatting as such actions may damage the card.
  Opening the battery compartment cover, opening the card cover, connecting or disconnecting the AC adapter (regardless of whether there are batteries in the camera or not)

Settings

7

One of the key features of a digital camera is that you can view the pictures you have taken immediately.
But that isn't all.
For example, you can customize the startup screen with your own picture or select the beep or shutter sounds.
Making use of these functions will make such a difference to how much fun you get out of your camera. Why not try them out?



Now you have your very own customized camera!

Resetting the settings to the default (RESET)

The camera retains the changed settings for shooting functions even if the power is turned off (except for AUTO and SCENE). Use [RESET] to reset the settings (other than My Mode settings and [SETUP] tab in mode menu) to the factory default settings. For a list of the default settings, see “List of factory default settings” (P. 182).

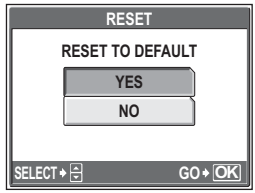
AUTO P A S M SCENE

Top menu ▶ [MODE MENU] ▶ [SETUP] ▶ [RESET]

“Using the menus” (P. 17)

1 **Select [YES], and press OK.**

- Settings are reset to the factory default.



Selecting a display language

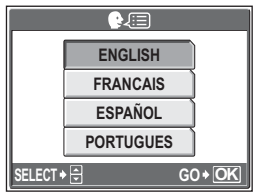
You can select a language for on-screen display. Available languages vary depending on the area where you purchased this camera.

AUTO P A S M MY SCENE

Top menu ▶ [MODE MENU] ▶ [SETUP] ▶ [ ]

“Using the menus” (P. 17)

1 **Select a language, and press OK.**



TIPS

To increase the number of languages

→ You can add other languages to your camera with the provided OLYMPUS Master software. For details, refer to the help in the OLYMPUS Master software.

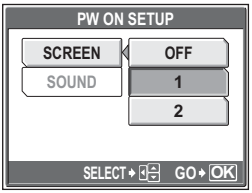
Changing the startup screen and shutdown screen (PW ON SETUP/PW OFF SETUP)

You can select the picture displayed and the sound played when the camera is turned on and turned off. You can also register your favorite picture and display it on the screen. ☞"Screen setup" (P. 107)

AUTO P A S M MY SCENE

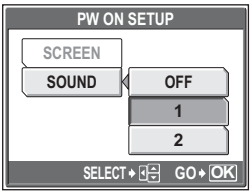
Top menu ▶ [MODE MENU] ▶ [SETUP] ▶ [PW ON SETUP] / [PW OFF SETUP] ☞"Using the menus" (P. 17)

1 For [SCREEN], select [OFF], [1], or [2], and press OK.



OFF No picture is displayed.
1 A picture is displayed.
2 The picture registered with [SCREEN SETUP] is displayed. If there is no registered picture, nothing is displayed.

2 For [SOUND], select [OFF], [1], or [2], and press OK.



OFF No sound.
1/2 Sound is output.

- The volume level is the same as that set with [VOLUME]. ☞"Setting camera sounds (■))/BEEP/SHUTTER SOUND/VOLUME)" (P. 109)

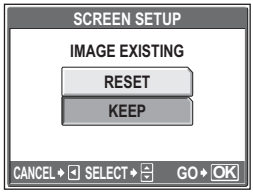
3 Press OK.

Screen setup

You can select the pictures that are displayed when the power is turned on and turned off. Still pictures in the internal memory or the card can be registered. Use [PW ON SETUP] or [PW OFF SETUP] to display the screen you registered. ☞"Changing the startup screen and shutdown screen (PW ON SETUP/PW OFF SETUP)" (P. 107)

Top menu ▶ [MODE MENU] ▶ [SETUP] ▶ [SCREEN SETUP] ▶ [PW ON SETUP] / [PW OFF SETUP] ☞"Using the menus" (P. 17)

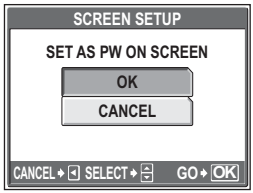
- If a picture is already registered, the [IMAGE EXISTING] screen is displayed asking if you want to cancel the currently registered picture and register a new one. To register a new picture, select [RESET], and press ⊛. If you select [KEEP], the screen returns to the menu.



1 **Select the picture you want to register, and press ⊛.**

2 **Select [OK], and press ⊛.**

- The picture is registered and the screen returns to the menu.



Registering a picture for the startup screen

Viewing pictures immediately (REC VIEW)

You can choose whether or not to display the picture you have just taken on the monitor.

ON The picture being recorded is displayed. This is useful for making a brief check of the picture you have just taken. Pressing the shutter button halfway during Rec View lets you resume shooting immediately.

OFF The picture being recorded is not displayed. This is useful when you want to prepare for your next shot while the previous picture is being recorded.

AUTO P A S M SCENE

Top menu ▶ [MODE MENU] ▶ [SETUP] ▶ [REC VIEW] ▶ [ON] / [OFF] ☞"Using the menus" (P. 17)

Setting camera sounds (■))/BEEP/ SHUTTER SOUND/VOLUME)

■))	Select [OFF], [LOW] or [HIGH] for the camera warning sound.
BEEP	Select [OFF], [1] or [2] for the sound of the button operations, for example when making menu selections. You can also set the volume of the sound to [LOW] or [HIGH].
SHUTTER SOUND	Select [OFF], [1] or [2] for the sound of the shutter button. You can also set the volume of the sound to [LOW] or [HIGH].
VOLUME	Set the volume for playback of still pictures and movies with sound. There are 5 levels to choose from.

● ■))

AUTO P A S M MY SCENE

Top menu ▶ [MODE MENU] ▶ [SETUP] ▶ [■))] ▶ [OFF] / [LOW] / [HIGH]

☞"Using the menus" (P. 17)

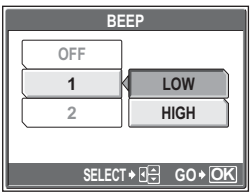
● BEEP

AUTO P A S M MY SCENE

Top menu ▶ [MODE MENU] ▶ [SETUP] ▶ [BEEP]

☞"Using the menus" (P. 17)

1 **Select [OFF], [1] or [2]. If you selected [1] or [2], select [LOW] or [HIGH], and press OK.**



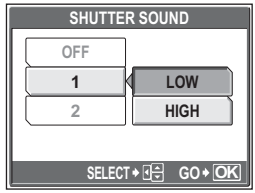
● SHUTTER SOUND

AUTO P A S M MY SCENE

Top menu ▶ [MODE MENU] ▶ [SETUP] ▶ [SHUTTER SOUND]

☞"Using the menus" (P. 17)

1 **Select [OFF], [1] or [2]. If you selected [1] or [2], select [LOW] or [HIGH] and press ⊛.**



●VOLUME

Top menu ▶ [MODE MENU] ▶ [SETUP] ▶ [VOLUME]

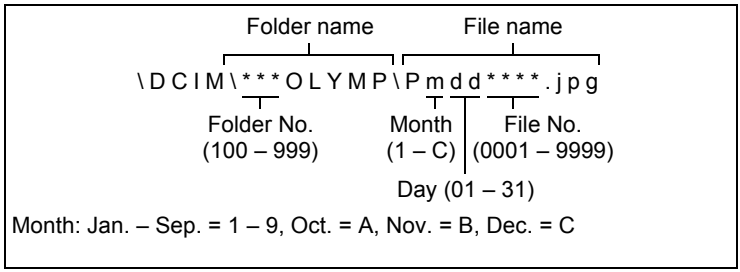
☞"Using the menus" (P. 17)

- For album playback mode: Top menu ▶ [ALBUM MENU] ▶ [VOLUME]

1 **Press ⊛ to set the volume, and press ⊛.**

Resetting file names (FILE NAME)

File names and their folder names for recorded pictures are automatically generated by the camera. File names and folder names respectively include file numbers (0001 to 9999) and folder names (100 to 999), and are named as follows.



Month: Jan. – Sep. = 1 – 9, Oct. = A, Nov. = B, Dec. = C

There are two settings from which you can choose: [RESET] or [AUTO]. Choose the one that is best for you when transferring images to a computer.

RESET The file number and folder number are reset every time a new card is inserted in the camera. The folder number returns to No. 100 and the file number returns to No. 0001. This method is useful when grouping files on separate cards.

AUTO Even if a new card is inserted, the folder number and file number are retained from the previous card, so the same file number is not used on different cards. This helps you to manage multiple cards. This method is useful when you want to manage all your files with sequential numbers.

Top menu ▶ [MODE MENU] ▶ [SETUP] ▶ [FILE NAME] ▶ [RESET] / [AUTO]

☞"Using the menus" (P. 17)

Note

- When the File No. reaches 9999, the file number returns to 0001 and the folder number changes.
- When both the folder number and file number reach their respective maximum number (999/9999), the number of storable pictures becomes 0 even if the card is not full. Replace the card with a new one.

Adjusting the image processing function (PIXEL MAPPING)

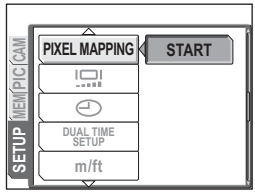
The pixel mapping feature allows the camera to check and adjust the CCD and image processing functions. It is not necessary to operate this function frequently. Approximately once a year is recommended. Wait at least one minute after taking or viewing pictures to allow the pixel mapping function to perform properly.

Top menu ▶ [MODE MENU] ▶ [SETUP] ▶ [PIXEL MAPPING]

☞"Using the menus" (P. 17)

1 **Press ◇. When [START] is displayed, press OK.**

- The [BUSY] bar is displayed during pixel mapping. When pixel mapping is finished, the screen returns to the mode menu.



Note

- If you turn the camera off during pixel mapping, check must be performed again.

Adjusting the monitor brightness

This function lets you adjust the brightness of the monitor to make it easier to see the image.

AUTO P A S M SCENE

Top menu ▶ [MODE MENU] ▶ [SETUP] ▶ [!]

☞"Using the menus" (P. 17)

- For album playback mode: Top menu ▶ [ALBUM MENU] ▶ [!]

1 **Adjust the brightness while looking in the monitor, and when you have set the desired level, press OK.**

- Pressing ◇ brightens the monitor, and pressing ◇ darkens it.

Setting the date and time

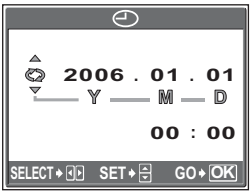
This function lets you set the date and time. The date and time is saved with each image, and is used in the file name.

AUTO P A S M SCENE

Top menu ▶ [MODE MENU] ▶ [SETUP] ▶ [ ]

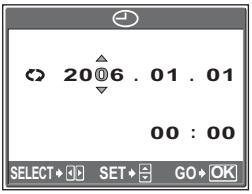
☞"Using the menus" (P. 17)

1 Select one of the following date formats: [Y-M-D] (Year/Month/Day), [M-D-Y] (Month/Day/Year), [D-M-Y] (Day/Month/Year), and press ▶.



- The camera proceeds to the year setting.
- The following steps show the procedure used when the date and time settings are set to [Y-M-D].

2 Press ▲▼ to set the year, and press ▶ to move to the month setting.



- To move back to the previous setting, press ◀.
- The first two digits of the year are fixed.

3 Repeat this procedure until the date and time are completely set.

- The time is displayed in the 24-hour format. Consequently, 2 p.m. is displayed as 14:00.

4 Press OK.

- For a more accurate setting, press OK when the time signal hits 00 seconds.

Note

- The date and time settings will be returned to the factory default settings if the camera is left without batteries for approximately 3 days. The settings will be canceled more quickly if the batteries were only loaded in the camera for a short time before being removed. Before taking important pictures, check that the date and time settings are correct.

Setting the date and time in another time zone (DUAL TIME SETUP)

This function allows you to set a date and time in another time zone (dual time), separate from the settings in [⏲]. After setting, you can switch between the new setting and the time set in [⏲].

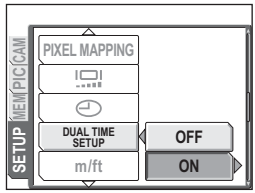
AUTO P A S M MY SCENE

Top menu ▸ [MODE MENU] ▸ [SETUP] ▸ [DUAL TIME SETUP]

☞ "Using the menus" (P. 17)

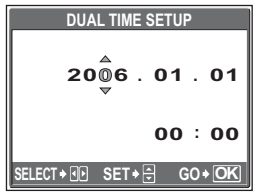
● Setting dual time

1 **Select [ON], and press ⊛.**



2 **Press ⊛ to set the year, and press ⊛ to move to the month setting.**

- To move back to the previous setting, press ⊛.
- The first two digits of the year are fixed.
- The date format is the same as that set in Step 1 of [⏲].



3 **Repeat this procedure until the date and time are completely set.**

- The time is displayed in the 24-hour format. Consequently, 2 p.m. is displayed as 14:00.

4 **Press OK.**

- For a more accurate setting, press OK when the time signal hits 00 seconds.
- The date and time switches to dual time.

● Switching the date and time

1 **Select [OFF] or [ON], and press OK.**

OFF Switches to the date and time set in [⏲].
ON Switches to the date and time set in [DUAL TIME SETUP].

TIPS

- Changes made to [🕘] do not affect the date and time set in [DUAL TIME SETUP].
- After setting the date and time with [DUAL TIME SETUP], it is retained even after [DUAL TIME SETUP] is set to [OFF].

Setting the measurement unit (m/ft)

The measurement unit can be selected from either meters or feet in the manual focus mode.

m At long ranges, the camera measures in meters, and at short ranges in centimeters.
ft At long ranges, the camera measures in feet, and at short ranges in inches.

AUTO P A S M MY SCENE

Top menu ▶ [MODE MENU] ▶ [SETUP] ▶ [m/ft] ▶ [m] / [ft]

☞"Using the menus" (P. 17)

Customizing the camera (MY MODE SETUP/ SHORT CUT/CUSTOM BUTTON)

You can customize the camera to make it easier to use based on your needs.

MY MODE SETUP
You can set shooting-related functions. You can also save the current camera settings. When the mode dial is set to MY, your customized settings are activated.
☞"My Mode" (P. 53)
You can save up to 4 different patterns in [MY1 MY MODE 1] to [MY4 MY MODE 4]. Only the settings in [MY1 MY MODE 1] are preset.

SHORTCUT
You can set shortcut menus on the top menu in the still picture shooting mode (**P**/**A**/**S**/**M**/MY/**SCENE**). This is useful when you want to go quickly to frequently used functions.

CUSTOM BUTTON
You can set commonly used functions to the custom button (**AEL** button). When a function is set to the custom button, you can simply press the custom button to select that function without having to go through the menu.
☞"Direct buttons" (P. 12)

● Functions that can be assigned to My Mode, shortcut menus, and custom button

Function	MY MODE SETUP	SHORT CUT	CUSTOM BUTTON	Ref. Page
P/A/S/M/SCENE	✓	—	—	P. 10
FNo.	✓	—	—	P. 51
SHUTTER	✓	—	—	P. 52
±	✓	—	—	P. 60
MONITOR*1	✓	—	—	P. 72
ZOOM*2	✓	—	—	—
FLASH MODE	✓	—	—	P. 42
AE LOCK (factory default settings)	—	—	✓	P. 58
AF LOCK	—	—	✓	P. 56
ESP/[•]	✓	✓	✓	P. 58
🌷	✓	✓	✓	P. 41
DRIVE	✓	✓	✓	P. 67
ISO	✓	✓	✓	P. 60
MY 1/2/3/4	—	✓	✓	P. 53
⏱	✓	✓	✓	P. 69
±	✓	✓	—	P. 44
SYNCRO	✓	✓	✓	P. 45
FLASH	✓	✓	✓	P. 46
DIGITAL ZOOM	✓	✓	✓	P. 40
NOISE REDUCTION	✓	✓	✓	P. 65
AF MODE	✓	✓	✓	P. 54
FOCUS MODE	✓	✓	✓	P. 55
FULLTIME AF	✓	✓	✓	P. 56
PANORAMA	✓	—	—	P. 70
🎙	✓	✓	✓	P. 71
TIMELAPSE	✓	✓	—	P. 68

Function	MY MODE SETUP	SHORT CUT	CUSTOM BUTTON	Ref. Page
◀⋮·	✓	✓	✓	P. 26
WB	✓	✓	✓	P. 61
WB±	✓	✓	—	P. 63
SHARPNESS	✓	✓	—	P. 64
CONTRAST	✓	✓	—	P. 64
SATURATION	✓	✓	—	P. 64
INFO	✓	—	—	P. 72
▟	✓	—	—	P. 73
FRAME ASSIST	✓	—	—	P. 74

*1 Set to light the monitor when the camera is turned on.
*2 For [ZOOM], select from 38 mm, 50 mm, 80 mm, 100 mm, 114 mm (these numbers are based on the focal length of a 35mm camera).

● Setting My Mode

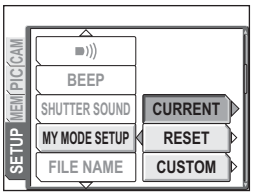
P A S M MY SCENE

Top menu ▶ [MODE MENU] ▶ [SETUP] ▶ [MY MODE SETUP]

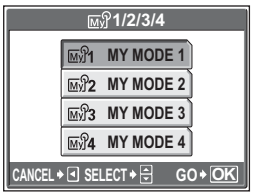
☞"Using the menus" (P. 17)

1 Select the type of [MY MODE SETUP], and press ⊛.

CURRENT Saves the current camera settings.
RESET Restores the factory default settings.
CUSTOM Saves settings one by one.



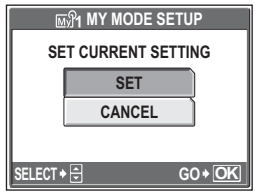
2 Select a My Mode number, and press OK.



3 Make the settings.

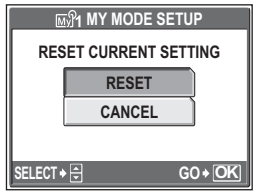
If you selected [CURRENT] in Step 1

Select [SET], and press ⊛.
- The current camera settings are saved in the selected My Mode.



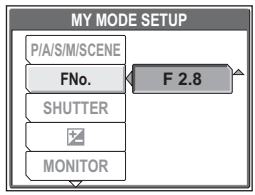
If you selected [RESET] in Step 1

Select [RESET], and press ⊛.
- The settings in the selected My Mode are reset.
  If no settings are saved, My Mode settings cannot be selected.



If you selected [CUSTOM] in Step 1

Select the item to set to My Mode, and press ⊛. Change the setting, and press ⊛.
- The setting is saved.
- You can also change the other settings.



4 When you have made all the settings you want, press ⊛.

Note

- Although the settings you are using can be saved in the [CURRENT] setting, the zoom position will be saved as the closest of the 5 settings in [ZOOM] in [MY MODE SETUP].

● Setting shortcuts

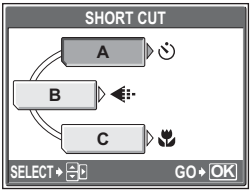
P A S M MY SCENE

Top menu ▶ [MODE MENU] ▶ [SETUP] ▶ [SHORT CUT]

☞"Using the menus" (P. 17)

1 **Select [A], [B] or [C], and press ⊛.**

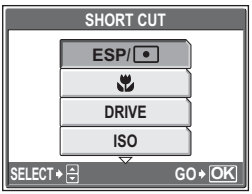
- For SCENE mode, [C] is set to [SCENE] and shortcut menus cannot be set.



2 **Select a function, and press ⊛.**

- The screen in Step 1 is displayed.

3 **Press ⊛.**



● Setting the custom button

P A S M MY SCENE

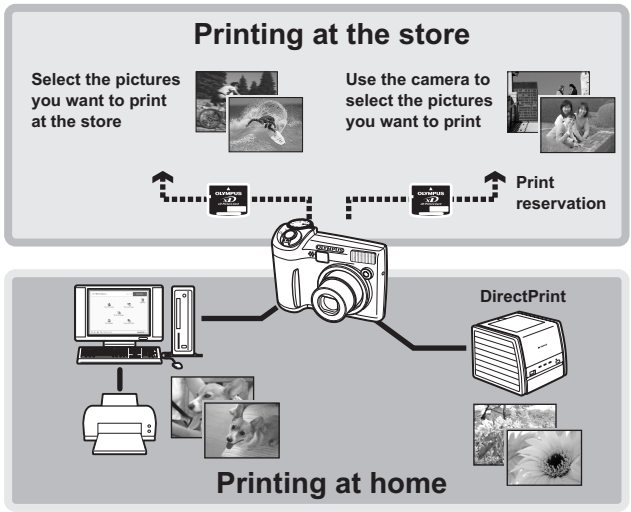
Top menu ▶ [MODE MENU] ▶ [SETUP] ▶ [CUSTOM BUTTON]

☞"Using the menus" (P. 17)

1 **Select a function, and press ⊛.**

8 Printing pictures

To print the pictures you have taken, you can either have a photo store process them, or print them at home on your own printer.
If you go to a photo store, it is a good idea to store the print reservation data on the card first. This lets you select the pictures you want to print and decide how many prints you want.
If you print the pictures at home, you can either connect the camera directly to the printer or you can connect the camera to a computer and download the pictures to the computer first.


Printing at the store
Select the pictures you want to print at the store
Use the camera to select the pictures you want to print
Print reservation
DirectPrint
Printing at home

Direct printing (PictBridge)

Using the direct printing function

By connecting the camera to a PictBridge-compatible printer with the USB cable, you can print out recorded pictures directly. With the camera connected to the printer, select the pictures you want to print and the number of prints on the camera's monitor.
With [EASY PRINT], you can print out the picture displayed on the monitor at the single press of a button. ☞"Printing pictures (EASY PRINT)" (P. 122)
With [CUSTOM PRINT], you can print out pictures with the set number of prints, print paper and other settings. ☞"Printing pictures (CUSTOM PRINT)" (P. 123)
It is also possible to print out pictures using the print reservation data.
☞"Print settings (DPOF)" (P. 131)
To find out if your printer is compatible with PictBridge, refer to the printer's instruction manual.

What is PictBridge?... It is the standard for connecting digital cameras and printers of different manufacturers and printing out pictures directly.

STANDARD... All printers that support PictBridge have standard print settings. If [STANDARD] is selected on the settings screens (P. 124 to 129), pictures are printed according to these settings. Refer to the printer's instruction manual for its standard settings or contact the printer manufacturer.

TIPS

- For details of printing paper types, ink cassettes, etc., refer to the printer's instruction manual.

Note

- You are recommended to use the optional AC adapter when printing pictures. If you use batteries, make sure that they are sufficiently charged. If the camera stops operating while communicating with the printer, the printer may malfunction or image data may be lost.
- Images recorded in movie mode and raw data cannot be printed.
- The camera will not enter sleep mode when connected to a printer with the USB cable.

Print modes and settings

Available printing modes, paper sizes etc., vary depending on the printer you use. Refer to the instruction manual for your printer.

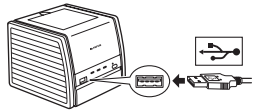
Printing pictures (EASY PRINT)

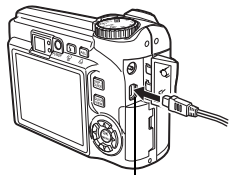
[EASY PRINT] can be used to print out the picture displayed on the monitor.

1 **Display the picture you want to print out on the monitor.**

2 **Connect one end of the provided USB cable into the camera's multi-connector and the other end into the printer's USB connector.**

- The [EASY PRINT START] screen is displayed.
- For details of how to turn the printer on and the position of the USB port, refer to the printer's instruction manual.





Multi-connector

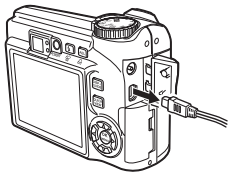
3 **Press the 🖶 button.**

- Printing starts.

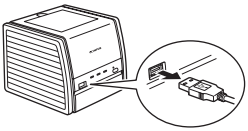
- When printing is finished, the picture selection screen is displayed. To print another picture, press ⟲⟳ to select a picture, and press the 🖶 button.
- When you are finished, disconnect the USB cable from the camera with the picture selection screen displayed.

4 **Remove the USB cable from the camera.**

- The camera turns off.



5 **Remove the USB cable from the printer.**



TIPS

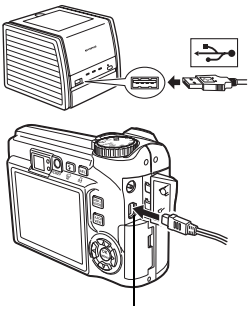
- You can use [EASY PRINT] even when the camera is turned off or in shooting mode. With the camera turned off or in shooting mode, connect the USB cable. The selection screen for the USB connection is displayed. Select [EASY PRINT]. ☞"Printing pictures (CUSTOM PRINT)" Step 2 (P. 124), "Printing pictures (EASY PRINT)" Step 3 (P. 122)

Printing pictures (CUSTOM PRINT)

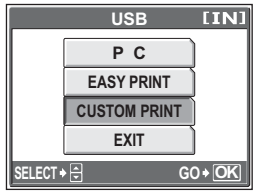
Use the provided USB cable to connect the camera to a PictBridge-compatible printer.
Try printing one picture with the most basic printing method of [CUSTOM PRINT]. The selected picture is printed using the standard settings of your printer. The date and file name are not printed.

1 **Connect one end of the provided USB cable into the camera's multi-connector and the other end into the printer's USB connector.**

- The camera turns on automatically.
- The monitor turns on and the selection screen for the USB connection is displayed.
- For details of how to turn the printer on and the position of the USB port, refer to the printer's instruction manual.



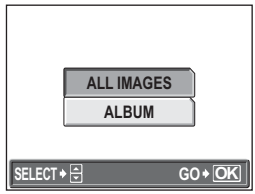
2 Select [CUSTOM PRINT], and press OK.



- [ONE MOMENT] is displayed and the camera and printer are connected. The [PRINT MODE SELECT] screen is displayed on the monitor. Select the print settings on the camera's monitor.
- Select [EASY PRINT], and press OK. The picture selection screen is displayed.
  ☞"Printing pictures (EASY PRINT)" Step 3 (P. 122)

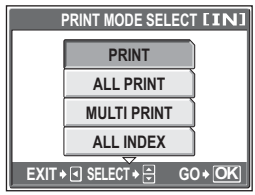
● To select the pictures to print

When there is a card in the camera, a screen is displayed for selecting the pictures you want to print.
Select [ALL IMAGES] or [ALBUM], and press OK.
To select an album, select [ALBUM], and press OK.

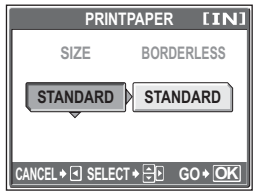


3 Select [PRINT], and press OK.

- The [PRINTPAPER] screen is displayed.
- When the [PRINTPAPER] screen is not displayed, go to Step 5.



4 Press OK without changing the [SIZE] or [BORDERLESS] settings.

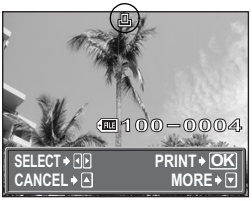


5 Press ⊛ to select a picture, and press ☜.

- [SINGLE PRINT] is set.

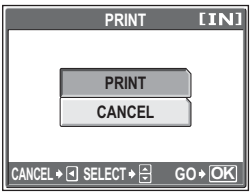
6 Press ⊛.

- The [PRINT] screen is displayed.



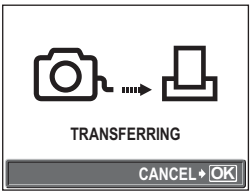
7 Select [PRINT], and press ⊛.

- Printing starts.
- When printing is finished, the [PRINT MODE SELECT] screen is displayed.

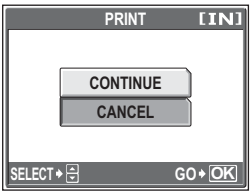


● To cancel printing

Pressing ⊛ during print data transfer displays the screen for selecting whether to continue or cancel printing. To cancel printing, select [CANCEL] and press ⊛.

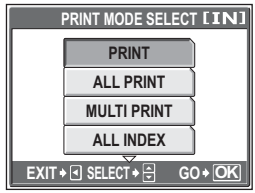


Screen during data transfer



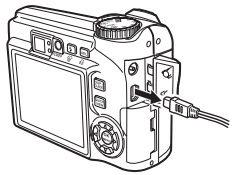
8 **In the [PRINT MODE SELECT] screen, press ⍬.**

- A message is displayed.

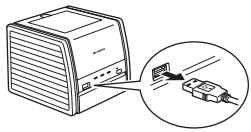


9 **Remove the USB cable from the camera.**

- The camera turns off.



10 **Remove the USB cable from the printer.**

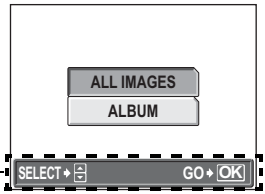


Other print modes and print settings

In addition to the basic printing method, there are also several other printing modes. The paper size and border settings can be set in the same print mode.
If the following screen is displayed, perform the operations according to the operation guide.

Selecting the picture to print (available only when a card is inserted)

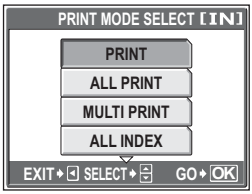
ALL IMAGES Allows you to select from all pictures in the internal memory or the card to print.
ALBUM Select an album and the pictures in the album to print.



Operation guide

Selecting a print mode

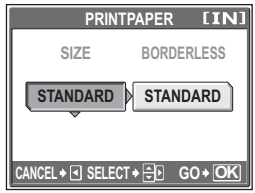
PRINT Prints the selected picture.
ALL PRINT Prints all the pictures stored in the internal memory or the card.
MULTI PRINT Prints one picture in multiple layout format.
ALL INDEX Prints an index of all the pictures stored in the internal memory or the card.



PRINT ORDER Prints pictures according to print reservations. If no print reservations have been made, this option is not available.
☞"Print settings (DPOF)" (P. 131)

Setting the print paper

Select the paper size and border on the [PRINTPAPER] screen.



SIZE Choose from the available paper sizes on your printer.

BORDERLESS Select framed or unframed. In [MULTI PRINT] mode, you cannot select the frame.

- **OFF ( )** The picture is printed inside a blank frame.
- **ON ( )** The picture is printed filling the entire page.

PICS/SHEET Available in [MULTI PRINT] mode only. The number of prints that can be printed varies depending on the printer.

Note

- If the [PRINTPAPER] screen is not displayed, [SIZE], [BORDERLESS] and [PICS/SHEET] are set to [STANDARD].

Selecting the picture to print

Press ⁂ to select the picture you want to print. You can also use the zoom lever and select a picture from the index display.

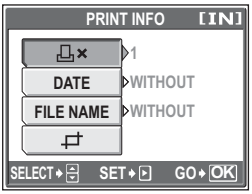
PRINT Prints one copy of the selected picture.

SINGLE PRINT Makes a print reservation for the displayed picture.

MORE Sets the number of prints and data to be printed for the displayed picture.

Setting the number of prints and data to be printed [MORE]

凸×	Sets the number of prints. You can select up to 10 prints.
DATE (🕘)	If you select [WITH], pictures are printed with the date.
FILE NAME (📄)	If you select [WITH], pictures are printed with the file name.
⌗	Crops part of a picture and prints it.



Setting the trimming position and size [⌗]

① Use the zoom lever to adjust the trimming size and the arrow pad to adjust the trimming position, and press ⊛.
② Select [OK], and press ⊛.

Note

- The size of the picture that is printed depends on your printer's setting. If the cropped area of the picture is small, the magnification of the image increases at the time of printing, creating a grainy picture.
- You are recommended to take a picture in SHQ or HQ record mode if you want to create a detailed enlarged print of the picture.

If an error message is displayed

If an error message is displayed on the camera's monitor during direct print setting or printing, see the following table.
For more details, refer to the printer's instruction manual.

Monitor indication	Possible cause	Corrective action
NO CONNECTION	The camera is not connected to the printer correctly.	Disconnect the camera and connect it again correctly.
NO PAPER	There is no paper in the printer.	Load some paper in the printer.
NO INK	The printer has run out of ink.	Replace the ink cartridge in the printer.
JAMMED	The paper is jammed.	Remove the jammed paper.
SETTINGS CHANGED	The printer's paper tray has been removed or the printer has been operated while changing settings on the camera.	Do not operate the printer while changing settings on the camera.
PRINT ERROR	There is a problem with the printer and/or camera.	Turn off the camera and printer. Check the printer and remedy any problems before turning the power on again.
CANNOT PRINT	Pictures taken with other cameras may not be printed on this camera.	Use a computer to print.

TIPS

- If an error message other than those shown above is displayed, see "Error messages" (P. 153).

Print settings (DPOF)

How to make print reservations

Print reservation allows you to save printing data (the number of prints and the date and time information) with the pictures stored on the card.

> Only the images stored on the card can be reserved to print. Insert a card with recorded pictures into the camera before making print reservations.

With print reservation, you can print out pictures easily either at home using a personal DPOF-compatible printer or at a photo store that supports DPOF. DPOF is a standard format used to record automatic print information from digital cameras. It allows you to store data such as which pictures you want to print and the number of prints so that you can print pictures automatically at home or at a photo store.

Pictures with print reservations can be printed using the following procedures.

Printing using a DPOF-compatible photo store.

You can print the pictures using the print reservation data.

Printing using a DPOF-compatible printer.

Printing is possible directly from a card containing print reservation data, without using a computer. For more details, refer to the printer's instruction manual. A PC card adapter may also be necessary.

To use print services without using DPOF

Pictures stored in the internal memory cannot be printed at a photo store. The pictures need to be copied to a card before taking them.

☞"Copying pictures in the internal memory to the card (BACKUP)" (P. 101)

TIPS

Relation between printing and record mode when shooting

The resolution of a computer/printer is generally based on the number of dots (pixels) per inch (dpi). The higher the dpi value, the better the printed results. Keep in mind, however, that the number of pixels does not change. This means that when you print an image with a higher dpi value, the size of the printed picture will be smaller. Although you can print magnified images, picture quality will decrease.

If you want to print large, high-quality pictures, set the record mode as high as possible when taking the pictures. ☞"Record mode" (P. 26)

Note

- DPOF reservations set by another device cannot be changed by this camera. Make changes using the original device.
- If a card contains DPOF reservations set by another device, entering reservations using this camera may overwrite the previous reservations.
- If there is not enough space in the card memory, you may not be able to enter the reservation data. [CARD FULL] will be displayed.
- You can make DPOF print reservations for up to 999 images per card.
- Even if an image is displayed with the message [PICTURE ERROR], it may be possible to make print reservations. In this case, the print reservation icon (🖶) is not displayed when the image is displayed for full view. 🖶 is displayed when there are multiple images (index display), allowing you to confirm the print reservation.
- Not all functions may be available on all printers, or at all photo stores.
- Print reservation may take a little time when saving printing data to the card.
- You cannot make print reservations for images saved in raw data format.

Single-frame reservation

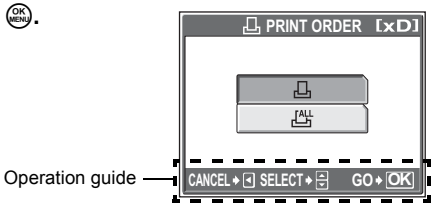
How to make a single-frame reservation for a selected picture is shown below. Follow the operation guide to make settings.

For album playback mode, select the album that you want to make the print reservations for, and display the top menu.

Top menu ▶ [MODE MENU] ▶ [PLAY] ▶ [🖨] ☞"Using the menus" (P. 17)

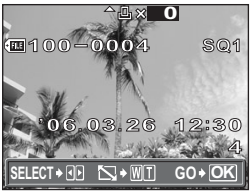
- For album playback mode: Top menu ▶ [ALBUM MENU] ▶ [🖨]

1 Select [🖨], and press OK.



Operation guide

2 Follow the operation guide and press ▲▼ to select the frames for print reservations, and then press ◀▶ to set the number of prints.



- You cannot make print reservations for pictures with 🎥.
- Repeat Step 2 to make print reservations for other pictures.

●Trimming the picture

① Push or pull the zoom lever toward W or T.
- The trimming frame is displayed.

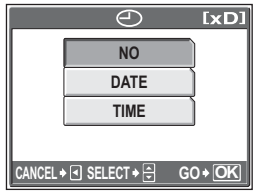
② Use the zoom lever to adjust the trimming size and the arrow pad to adjust the trimming position, and press OK.

③ Select [OK], and press OK.

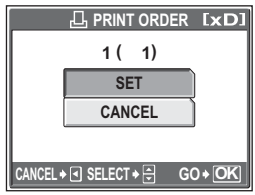
3 When you finish making print reservations, press OK.

4 **Select [NO], [DATE] or [TIME], and press ⊛.**

NO The pictures are printed without the date and time.
DATE The selected pictures are printed with the shooting date.
TIME The selected pictures are printed with the shooting time.



5 **Select [SET], and press ⊛.**



All-frame reservation

Reserves all the pictures stored on the card. The number of prints is set at one print per picture. You can set to print the shooting date and time.

For album playback mode, print reservations are made for all pictures in the album. Select the album that you want to make the print reservations for, and display the top menu.

Top menu ▶ [MODE MENU] ▶ [PLAY] ▶ [🖨] ☞"Using the menus" (P. 17)

- For album playback mode: Top menu ▶ [ALBUM MENU] ▶ [🖨]

1 **Select [ALL🖨], and press ⊛.**

2 **Select [NO], [DATE] or [TIME], and press ⊛.**

NO The pictures are printed without the date and time.
DATE All pictures are printed with the shooting date.
TIME All pictures are printed with the shooting time.

3 **Select [SET], and press ⊛.**

Resetting print reservation data

This function allows you to reset the print reservation data for pictures.
You can reset all the print reservation data or just for selected pictures.

Top menu ▶ [MODE MENU] ▶ [PLAY] ▶ [🖨] ☞"Using the menus" (P. 17)

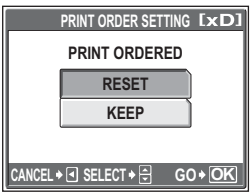
- For album playback mode: Top menu ▶ [ALBUM MENU] ▶ [🖨]

● To reset the print reservation data for all the pictures

1 **Select [🖨] or [🖨ALL], and press ⊛.**

2 **Select [RESET], and press ⊛.**

- If there is no print reservation data, this screen is not displayed.



● To reset the print reservation data for a selected picture

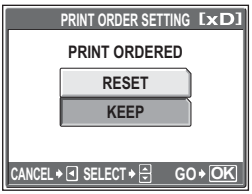
1 **Select [🖨], and press ⊛.**

2 **Select [KEEP], and press ⊛.**

- If there is no print reservation data, this screen is not displayed.

3 **Press ⊛ to select the picture with the print reservations you want to cancel, and press ⊛ to decrease the number of prints to 0.**

- Repeat Step 3 to cancel print reservations for other pictures.



4 **When you are finished canceling print reservations, press ⊛.**

5 **Select [NO], [DATE] or [TIME], and press ⊛.**

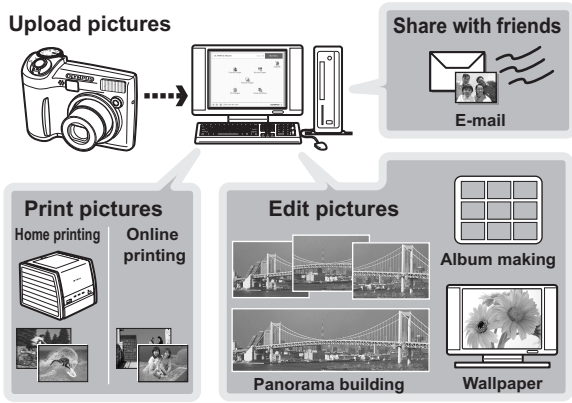
- The setting is applied to the remaining pictures with print reservations.

6 **Select [SET], and press ⊛.**

9

Connecting the camera to a computer

Viewing the pictures you have taken on your computer is just one of the many ways you can enjoy your pictures.
You can print out your favorite pictures, use the application software to download your pictures from your camera and edit them or organize them by date or category, or attach them to e-mail and send them over the Internet.
There are all kinds of ways you can use your pictures with a computer. You can run a slideshow, post your pictures on your home page, create an album, or set your favorite picture as your desktop wallpaper.

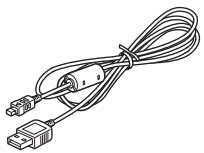


Flow

Using the USB cable provided with your camera, you can connect the camera and computer and download (transfer) the images to your computer using the OLYMPUS Master software, also provided with the camera.

Prepare the following items before starting.

OLYMPUS Master CD-ROM


USB Cable

Computer equipped with a USB port

Install the OLYMPUS Master software ☞P. 139

↓

Connect the camera to the computer using the USB cable ☞P. 143

↓

Start up the OLYMPUS Master software ☞P. 144

↓

Download image files to the computer ☞P. 146

↓

Disconnect the camera from the computer ☞P. 147

TIPS

Viewing and editing downloaded images

→If you want to process images using graphics applications, make sure you download the images to your computer first. Depending on the software, the image files may be damaged if the images are processed (rotated, etc.) while they are still in the internal memory or on the card.

If the data cannot be downloaded from the camera using the USB cable

→Image files on xD-Picture Card may be downloaded using the optional PC card adapter. For details, visit the Olympus web site at the address shown on the back cover of this manual.

Note

- It is recommended that you use the optional AC adapter when connecting the camera to a computer. If you use batteries, make sure they have enough power. The camera does not turn off automatically while it is connected to (communicating with) a computer. If the battery power runs out, the camera will stop whatever operation it is performing. This may result in a computer malfunction, or loss of image data (file) being transmitted.
- Do not turn the camera off while it is connected to the computer. Doing so could cause the computer to malfunction.
- Connecting the camera to a computer via a USB hub may cause unstable operation if there is any problem with compatibility between the computer and the hub. In this case, do not use a hub, but connect the camera directly to the computer.

Using OLYMPUS Master

For editing and managing image files, install the OLYMPUS Master software from the provided CD-ROM.

What is OLYMPUS Master?

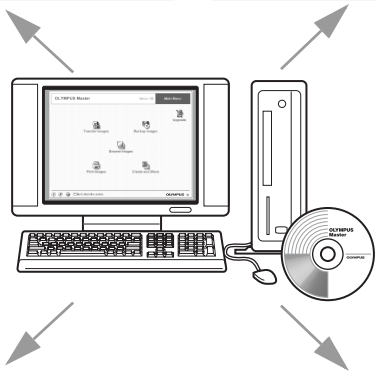
OLYMPUS Master is application software for editing images taken with a digital camera on a computer. Installing it on your computer lets you do the following:

Download images from the camera or other media

Manage images
You can organize your images using the calendar display. Search the image you want by date or keyword.

View images and movies
You can run a slideshow and playback movies.

Edit images
You can rotate images, trim them and change the size.



Edit images with the filter and correction functions

Make panoramic images
You can make panoramic images using pictures taken in panorama mode.

Print images
You can print images and make indexes, calendars and postcards.

View pictures taken in raw data format

For details of functions and operations other than the above, refer to the “Help” guide and OLYMPUS Master reference manual.

Installing OLYMPUS Master

Before installing the OLYMPUS Master software, please confirm that your computer is compatible with the following system requirements. For newer operating systems, please refer to the Olympus web site as shown on the back cover of this manual.

● Operating environment

Windows

OS	Windows 98SE/Me/2000 Professional/XP
CPU	Pentium III 500MHz or later
RAM	128 MB or more (at least 256 MB is recommended)
Hard disk capacity	300 MB or more
Connector	USB port
Monitor	1,024 × 768 pixels, 65,536 colors or more

Note

- Data transfer is only guaranteed on computers with a factory installed OS.
- To install the software in Windows 2000 Professional/XP, you must log on as a user with administrators' privileges.
- Internet Explorer and QuickTime 6 or later should be installed on your computer.
- Windows XP corresponds to Windows XP Professional/Home Edition.
- Windows 2000 corresponds to Windows 2000 Professional.
- If you are using Windows 98SE, the USB driver is installed automatically.

Macintosh

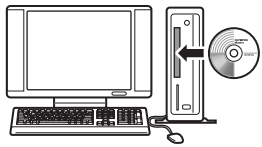
OS	Mac OS X 10.2 or later
CPU	Power PC G3 500 MHz or later
RAM	128 MB or more (at least 256 MB is recommended)
Hard disk capacity	300 MB or more
Connector	USB port
Monitor	1,024 × 768 pixels, 32,000 colors or more

Note

- Operation is only guaranteed on a Macintosh equipped with a built-in USB port.
- QuickTime 6 or later and Safari 1.0 or later must be installed.
- Be sure to remove the media (drag & drop onto the trash icon) before performing the following operations. Failure to do so could result in unstable computer operation and the need to reboot.
  - Disconnect the cable connecting the camera to the computer
  - Turn off the camera
  - Open the camera's card cover
  - Open the camera's battery compartment cover

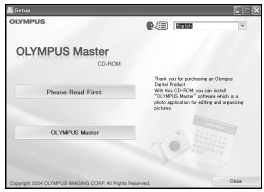
Windows

1 Insert the CD-ROM into the CD-ROM drive.



- The OLYMPUS Master setup screen is displayed.
- If the screen is not displayed, double-click the "My Computer" icon and click the CD-ROM icon.

2 Click the "OLYMPUS Master".



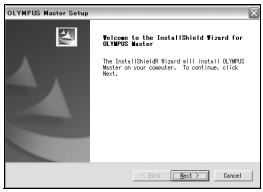
- The QuickTime installation screen is displayed.
- QuickTime is required to use OLYMPUS Master. If the QuickTime screen is not displayed, QuickTime 6 or later is already installed on the computer. In this case, go to Step 4.

3 Click “Next” and follow the on-screen instructions.

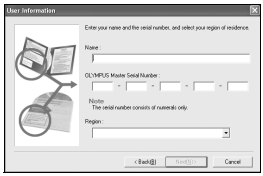
QuickTime Installation reminder
In order to use the OLYMPUS Master software, you must install QuickTime 6 or later.
QuickTime 6.4 will be installed on your computer when you click "Next".
Next(N) >
Cancel

- When the QuickTime licensing agreement is displayed, read the agreement and click “Agree” to proceed with the installation.
- The OLYMPUS Master installation screen is displayed.

4 Follow the on-screen instructions.

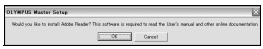

OLYMPUS Master Setup
Welcome to the InstallShield Wizard for OLYMPUS Master
The InstallShield® Wizard will install OLYMPUS Master on your computer. To continue, click Next.
< Back
Next >
Cancel

- When the OLYMPUS Master licensing agreement is displayed, read the agreement and click “Yes” to proceed with the installation.



- When the “User Information” dialog box is displayed, enter your “Name” and “OLYMPUS Master Serial Number”; select your region and click “Next”. Refer to the sticker on the CD-ROM package for the serial number.
- When the DirectX licensing agreement is displayed, read the agreement and click “Yes”.
- A screen asking whether or not you want to install Adobe Reader is displayed. Adobe Reader is required to read the OLYMPUS Master instruction manual. If this screen is not displayed, Adobe Reader is already installed on your computer.

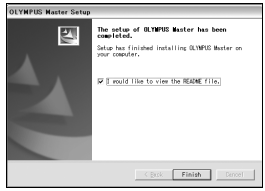
5 To install Adobe Reader, click “OK”.


OLYMPUS Master Setup
Would you like to install Adobe Reader? This software is required to read the User's manual and other online documentation.
OK
Cancel

- To cancel installation, click “Cancel”. Go to Step 7.
- The Adobe Reader installation screen is displayed. Follow the on-screen instructions.

6 Follow the on-screen instructions.

- The screen confirming that installation is completed is displayed. Click “Finish”.


OLYMPUS Master Setup
The setup of OLYMPUS Master has been completed.
Setup has finished installing OLYMPUS Master on your computer.
I would like to view the README file.
< Back
Finish
Cancel

7 Select the option to restart immediately when the screen asking you if you wish to restart the computer is displayed and click “OK”.

- The computer restarts.
- Remove the CD-ROM from the CD-ROM drive and store it.

Macintosh

1 Insert the CD-ROM into the CD-ROM drive.

- The CD-ROM window is displayed.
- If the CD-ROM window is not displayed, double-click the CD-ROM icon on the desktop.

2 Double-click on the desired language folder.

3 Double-click the “Installer” icon.

- The OLYMPUS Master installer starts up.
- Follow the on-screen instructions.
- When the OLYMPUS Master licensing agreement is displayed, read the agreement and click “Continue” and then “Agree” to proceed with the installation.
- The screen confirming that installation is completed is displayed.

4 Click “Finish”.

- The first screen is displayed.

5 Click “Restart”.

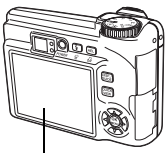
- The computer restarts.
- Remove the CD-ROM from the CD-ROM drive and store it.

Connecting the camera to a computer

Connect the camera to the computer using the USB cable provided with the camera.

1 **Make sure the camera is turned off.**

- The monitor is off.
- The lens is retracted.

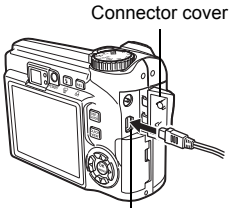


2 **Plug the USB cable into the USB port on the computer.**

- Refer to your computer's instruction manual to locate the position of the USB port.

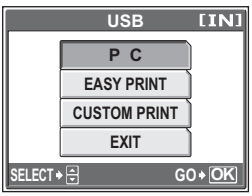
3 **Plug the USB cable into the multi-connector of the camera.**

- The camera turns on automatically.
- The monitor turns on and the selection screen for the USB connection is displayed.



4 **Select [PC], and press ⊛.**

5 **The camera is recognized by the computer.**



- Windows
  When you connect the camera to your computer for the first time, the computer attempts to recognize the camera. Click "OK" to exit the message that is displayed. The camera is recognized as a "Removable Disk".
- Macintosh
  The iPhoto program is the default application for managing digital images. When you connect your digital camera for the first time, the iPhoto application starts automatically, so close this application and start OLYMPUS Master.

Note

- The camera functions are disabled while the camera is connected to a computer.

Starting up OLYMPUS Master

Windows

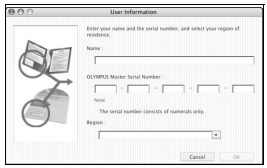
1 **Double-click the “OLYMPUS Master” icon on the desktop.**

- The main menu is displayed.
- When OLYMPUS Master is started up for the first time after installation, the “Registration” dialog box is displayed before the main menu. Follow the prompts and fill in the registration form.

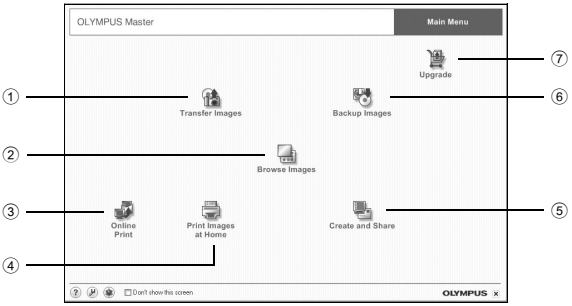
Macintosh

1 **Double-click the “OLYMPUS Master” icon in the “OLYMPUS Master” folder.**

- The main menu is displayed.
- When OLYMPUS Master is started up for the first time, the “User Information” dialog box is displayed before the main menu. Enter your “Name” and “OLYMPUS Master Serial Number”, and select your region.
- After the “User Information” dialog box, the “Registration” dialog box is displayed. Follow the prompts and fill in the registration form.



● OLYMPUS Master main menu



① **"Transfer Images" button**
Downloads images from the camera or other media.

② **"Browse Images" button**
Displays the browse window.

③ **"Online Print" button**
The online print window is displayed.

④ **"Print Images at Home" button**
Displays the print menu.

⑤ **"Create and Share" button**
Displays the editing menu.

⑥ **"Backup Images" button**
Creates backup images.

⑦ **"Upgrade" button**
Displays window for optional upgrade to OLYMPUS Master Plus.

● To exit OLYMPUS Master

1 **Click the "Exit" ✕ on the main menu.**

- OLYMPUS Master is exited.

Displaying camera images on a computer

Downloading and saving images

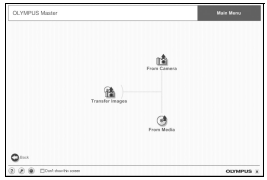
You can save camera images on your computer.

1 **Click “Transfer Images” on the OLYMPUS Master main menu.**

- The menu for selecting the source is displayed.

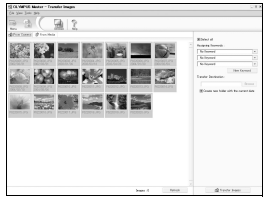
2 **Click “From Camera”.**

- The window for selecting images is displayed. All the images in the camera are displayed.



3 **Select the image files and click “Transfer Images”.**

- A window indicating that the download is complete is displayed.



4 **Click “Browse images now.”.**

- The downloaded images are displayed in the browse window.
- To return to the main menu, click “Menu” in the “Browse” window.

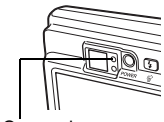
Note

- The orange lamp blinks while downloading images. Do not do any of the following while the lamp is blinking.
  - Open the camera’s card cover.
  - Open the camera’s battery compartment cover.
  - Connect or disconnect the AC adapter.

● To disconnect the camera

You can disconnect the camera after downloading the images to your computer.

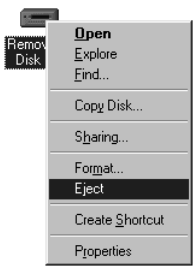
1 Make sure that the orange lamp has stopped blinking.



2 Make the following preparations for disconnecting the USB cable.

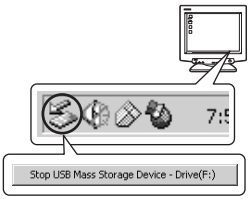
Windows 98SE

1 Double-click the “My Computer” icon and right-click the “Removable Disk” icon to display the menu.
2 Click “Eject” on the menu.



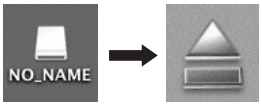
Windows Me/2000/XP

1 Click the “Unplug or Eject Hardware” icon in the system tray.
2 Click the message that is displayed.
3 When a message is displayed saying that the hardware can be ejected safely, click “OK”.

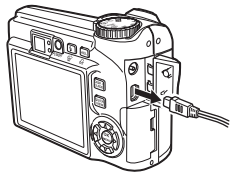


Macintosh

1 The trash icon changes to the eject icon when the “Untitled” or “NO_NAME” icon on the desktop is dragged. Drag and drop it on the eject icon.



3 **Disconnect the USB cable from the camera.**



Note

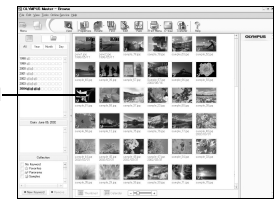
- Windows Me/2000/XP: When you click “Unplug or Eject Hardware”, a warning message may be displayed. Make sure that image data is not being downloaded from the camera and that all applications are closed. Click the “Unplug or Eject Hardware” icon again and disconnect the cable.

Viewing still pictures and movies

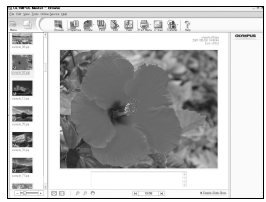
1 **Click “Browse Images” on the OLYMPUS Master main menu.**

- The “Browse” window is displayed.

2 **Double-click the still picture thumbnail that you want to view.**



- View mode is enabled and the picture is enlarged.
- To return to the main menu, click “Menu” in the “Browse” window.



● To view a movie

1 **Double-click the movie thumbnail that you want to see in the "Browse" window.**

- View mode is enabled and the first frame of the movie is displayed.

2 **To play back the movie, click playback button ▷ at the bottom of the screen.**

The names and functions of the controller parts are shown below.

	Item	Description
1	Playback slider	Move the slider to select a frame.
2	Time display	Displays the time that has elapsed during playback.
3	Playback (pause) button	Plays the movie. Functions as the pause button during playback.
4	Back button	Displays the previous frame.
5	Forward button	Displays the next frame.
6	Stop button	Stops playback and returns to the first frame.
7	Repeat button	Plays the movie repeatedly.
8	Volume button	Displays the volume adjustment slider.

Printing pictures

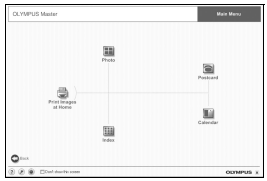
Pictures can be printed from the photo, index, postcard and calendar menus. The explanation below uses the photo menu.

1 **Click "Print Images at Home" on the OLYMPUS Master main menu.**

- The print menu is displayed.

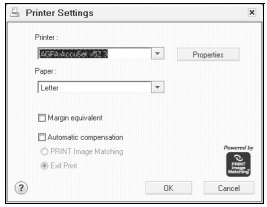
2 Click “Photo” .

- The “Photo Print” window is displayed.



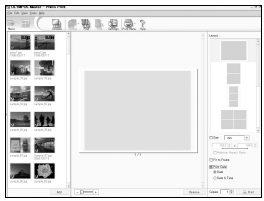
3 Click “Settings” in the “Photo Print” window.

- The printer settings screen is displayed. Make the necessary printer settings.



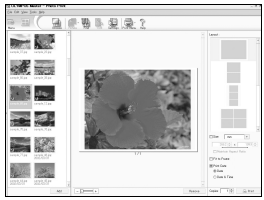
4 Select a layout and size.

- To print the date and time with your image, check the box next to “Print Date”, and select between “Date” and “Date & Time”.

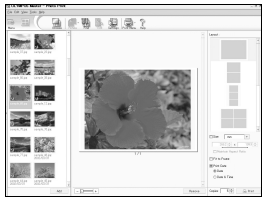


5 Select the thumbnail image that you want to print and click “Add”.

- A preview of the selected image is displayed on the layout.



6 Select the number of copies.



7 **Click “Print”.**

- Printing starts.
- To return to the main menu, click “Menu” in the “Photo Print” window.

To download and save images to a computer without using OLYMPUS Master

This camera is compatible with USB mass storage. You can connect the camera to your computer using the USB cable provided with the camera to download and save images without using OLYMPUS Master. The following environment is required to use the USB cable to connect the camera to your computer.

Windows: Windows 98SE/Me/2000 Professional/XP

Macintosh: Mac OS 9.0 to 9.2/X

Note

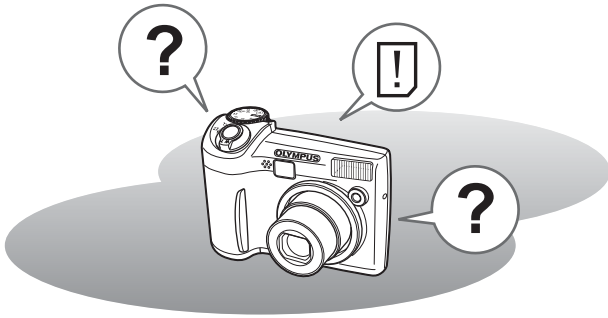
- If your computer is running Windows 98SE, you will need to install the USB driver. Before connecting the camera to your computer with the USB cable, double-click the files from the following folders on the provided OLYMPUS Master CD-ROM.
  (Drive name):\USB\INSTALL.EXE
- Data transfer is not guaranteed in the following environments, even if your computer is equipped with a USB port.
  - Windows 95/98/NT 4.0
  - Windows 98SE upgrades from Windows 95/98
  - Mac OS 8.6 or earlier
  - Computers with a USB port added by means of an extension card, etc.
  - Computers without a factory-installed OS and home-built computers.

10

Appendix

This chapter contains useful information from OLYMPUS.

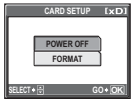
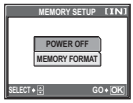
- When you get an error message while using the camera...
- When you press the **POWER** button but nothing happens...
- When you want to know how to safely store your camera...
- When you don't understand a term used in the manual...Here is where you'll find the answer.



Troubleshooting

Error messages

Monitor indication	Possible cause	Corrective action
CARD ERROR	There is a problem with the card.	This card cannot be used. Insert a new card.
WRITE-PROTECT	Writing to the card is prohibited.	The recorded image has been protected (read-only) on a computer. Download the image to a computer and cancel the read-only setting.
MEMORY FULL	The internal memory has no available memory and cannot store any new data.	Insert a card to back up all data or erase unwanted data. Before erasing, download important pictures to a computer.
CARD FULL	The card has no available memory and cannot store any new data.	Replace the card or erase unwanted data. Before erasing, download important pictures to a computer.
NO PICTURE	There are no pictures in the internal memory or on the card.	The internal memory or the card contains no pictures. Record pictures.
PICTURE ERROR	There is a problem with the selected picture and it cannot be played back on this camera.	Use image processing software to view the picture on a computer. If that cannot be done, the image file is damaged.
CARD-COVER OPEN	The card cover is open.	Close the card cover.
BATTERY EMPTY	The batteries are empty.	Insert new batteries or charge the batteries.

Monitor indication	Possible cause	Corrective action
Y/M/D	When the camera is used for the first time or the batteries have been removed for a long time, the date and time are on the factory default setting.	Set the date/time.
	This card cannot be used in this camera. Or, the card is not formatted.	Format the card or replace the card. • Select [POWER OFF] and press OK. Insert a new card. • Select [FORMAT] and press OK. All data on the card is erased.
	There is an error in the internal memory.	Select [MEMORY FORMAT] and press OK. All data in the internal memory is erased. Frames and titles used to compose images are erased. Use OLYMPUS Master to add them in again.

Troubleshooting

● Preparatory operations

Possible cause	Corrective action	Ref. page
The camera does not turn on or function buttons do not respond.		
The power is off.	Press the **POWER** button to turn the camera on.	P. 22
The batteries are installed incorrectly.	Install the batteries correctly.	–
The battery power is exhausted.	Insert new batteries or charge the batteries.	–
The batteries are temporarily unable to function because of the cold.	Warm the batteries by putting them in your pocket for a while.	–
The camera is in the sleep mode.	Operate the camera with the shutter button or zoom lever.	–
The camera is connected to a computer.	The camera will not operate while it is connected to a computer.	P. 147

● Taking pictures

Possible cause	Corrective action	Ref. page
No picture is taken when the shutter button is pressed.		
The battery power is exhausted.	Insert new batteries or charge the batteries.	–
The camera is in the playback mode.	Set the mode dial to a mode other than ▶.	P. 10
The flash has not finished charging.	Remove your finger from the shutter button, and wait until the orange lamp stops blinking before taking the picture.	P. 44
The power is off.	Set the mode dial to a mode other than ▶, and press the **POWER** button.	P. 22
The internal memory or card is full.	Insert a new card or erase unwanted pictures. Before erasing, download important pictures to a computer.	P. 102, 146
The batteries ran out of power during shooting or while the images were being written to the internal memory or the card.	Insert new batteries or charge the batteries. (Wait until the orange lamp turns off when blinking.)	–
The memory gauge is full.	Wait until there is space in the memory gauge.	–
There is a problem with the card.	See “Error messages”.	P. 153

Possible cause	Corrective action	Ref. page
The monitor does not turn on.		
Monitor is turned off.	Press the **DISP./GUIDE** button several times to turn on the monitor.	P. 72
The viewfinder or monitor is hard to see.		
There is condensation* inside the camera.	Turn the camera off. Before turning it on again, wait until the camera adjusts to the surrounding temperature and dries out.	–
The brightness of the monitor is not adjusted properly.	Use [I▭I] to adjust the brightness.	P. 112
The monitor is exposed to direct sunlight.	Block the sunlight with your hand or use the viewfinder.	–
Vertical lines appear on the monitor screen during shooting.	Aiming the camera at a bright subject in sunlight may cause vertical lines to appear on the screen. This is not a malfunction.	–
The date recorded with the image data is wrong.		
The date and time is not set.	Set the date/time. The clock is not preset.	P. 113
The camera has been left without batteries.	If the camera is left for 3 days without batteries, the date and time setting is canceled. Set the date and time again.	P. 113
The picture is out of focus.		
The subject was too close.	Move further away from the subject. To take pictures closer than 20 cm (7.9 in.) with the zoom in the maximum wide position, use the super macro mode.	P. 41
The subject is dark.	Set [AF ILLUMINATOR] to [ON].	P. 57
Auto focus is not possible.	Use manual focus or focus lock to focus on the subject and then shoot.	P. 24, 55
There is condensation* inside the camera.	Turn the camera off. Before turning it on again, wait until the camera adjusts to the surrounding temperature and dries out.	–

Possible cause	Corrective action	Ref. page
The monitor goes off.		
The camera is in the sleep mode.	Operate the camera with the shutter button or zoom lever.	–
The flash does not fire.		
The flash is set to [⊗].	Select a flash mode other than [⊗].	P. 42
The subject is illuminated.	If you want the flash to fire on a brightly illuminated subject, set the flash to [ϟ].	P. 42
High speed sequential shooting or auto bracketing is set.	The built-in flash does not fire in high speed sequential shooting or auto bracketing. Set [DRIVE] to a different setting in [MODE MENU].	P. 67
The camera is recording a movie.	The flash does not fire in the movie mode. Select a shooting mode other than 🎥.	P. 47
Super macro mode is set.	The built-in flash does not fire in the super macro mode. Set [🌷] to [OFF] or [🌷].	P. 41
Panorama mode is set.	The flash does not fire in the panorama mode. Cancel panorama mode.	P. 70
The battery run time is brief.		
You are using the camera in a cold environment.	Battery performance deteriorates in low temperatures. Keep the camera warm by putting it inside your coat or clothing.	–
The remaining battery power is not indicated correctly.	When battery consumption fluctuates considerably, the camera may turn off without displaying the battery warning indicator. Insert new batteries or charge the batteries.	–
The green and orange lamps on the side of the viewfinder blink simultaneously.		
The battery is exhausted.	Insert new batteries or charge the batteries.	–

* Condensation: When it is cold outside, the water vapor in the air is rapidly cooled and turns to droplets of water.
Condensation occurs when the camera is suddenly taken from a cold place into a warm room.

● Playback of recorded images

Possible cause	Corrective action	Ref. page
The pictures in the internal memory cannot be played back.		
The card is inserted in the camera.	When a card is inserted, only pictures on the card can be played back. Remove the card.	P. 32
The picture is out of focus.		
A subject unsuited to AF was taken.	Use the focus lock to focus on the subject.	P. 24
The camera moved when the shutter button was pressed.	Hold the camera correctly and press the shutter button gently. Camera movement occurs easily with slower shutter speeds. When you take a picture with [⊛] in a night scene or a dark situation, use a tripod, or hold the camera firmly.	–
The subject is dark.	Set [AF ILLUMINATOR] to [ON].	P. 57
The lens was dirty.	Clean the lens. Use a commercially available blower blush and then wipe with a lens cleaner to remove dust. Mold may form on the lens surface if the lens is left dirty.	P. 162
The picture is too bright.		
The flash was set to [⚡].	Select a flash mode other than [⚡].	P. 42
The center of the subject is too dark.	If the center of the subject is too dark, the surrounding area emerges as too bright. Adjust the exposure compensation toward minus (–).	P. 60
The [ISO] is at a high setting.	Set [ISO] to [AUTO] or a low sensitivity such as [64].	P. 60
The aperture value is small in **A** (**M**) mode.	Increase the aperture value or set the camera to **P** mode.	P. 51
The shutter speed setting is too slow in **S** (**M**) mode.	Increase the shutter speed or set the camera to **P** mode.	P. 52

Possible cause	Corrective action	Ref. page
The picture is too dark.		
The flash was blocked by your finger.	Hold the camera correctly, keeping your fingers away from the flash.	–
The subject was out of the working range of the flash.	Shoot within the flash working range.	P. 42
The flash was set to [⊗].	Select a flash mode other than [⊗].	P. 42
The subject was too small and was backlit.	Set the flash to [ϟ], or set [ESP/•] to [•].	P. 42, 58
The sequential shooting mode was used.	Higher shutter speeds are used during sequential shooting, which may result in pictures that are darker than usual. Set [DRIVE] to [▭].	P. 67
The center of the subject is too bright.	If the center of the subject is too bright, the image as a whole emerges darker. Adjust the exposure compensation toward plus (+).	P. 60
The aperture value is too high in **A** (**M**) mode.	Decrease the aperture value or set the camera to **P** mode.	P. 51
The shutter speed is too fast in **S** (**M**) mode.	Reduce the shutter speed or set the camera to **P** mode.	P. 52
The colors of pictures look unnatural.		
Indoor lighting affected the picture's colors.	Set the white balance according to the lighting.	P. 61
No white in the picture.	Include something white in the picture, or shoot using [ϟ].	P. 42
The white balance setting is wrong.	Adjust the white balance according to the light source.	P. 61
Part of the picture is dark.		
The lens was partly blocked by your finger or the strap.	Hold the camera correctly, keeping your fingers and the strap away from the lens.	–

Possible cause	Corrective action	Ref. page
Pictures you have taken do not appear on the monitor.		
The power is off.	Set the mode dial to a mode other than [▶], and press the **POWER** button.	P. 22
The camera is in the shooting mode.	Press the **QUICK VIEW** button or set the mode dial to [▶].	P. 10, 76
There are no pictures in the internal memory or on the card.	[NO PICTURE] is displayed on the monitor. Record pictures.	–
There is a problem with the card.	See “Error messages”.	P. 153
The camera is connected to a TV.	The monitor does not function when the AV cable is connected to the camera.	P. 99
Single-frame erase and all-frame erase cannot be performed.		
The pictures are protected.	Cancel the protection of the pictures.	P. 101
No picture is displayed on the TV when connected to the camera.		
The video output signal is incorrect.	Set the video output signal according to the region where used.	P. 100
The TV video signal setting is incorrect.	Set the TV to the video input mode.	–
The monitor is hard to see.		
The brightness of the monitor is not adjusted properly.	Use [I▭I] to adjust the brightness.	P. 112
The monitor is exposed to direct sunlight.	Block the sunlight with your hand.	–

● When the camera is connected to a computer or printer

Possible cause	Corrective action	Ref. page
The printer fails to connect.		
[PC] was selected on the monitor after connecting the camera to the printer with the USB cable.	Remove the USB cable, and start again from Step 1 of “Printing pictures”.	P. 122, 123
The printer does not support PictBridge.	Refer to the instruction manual for your printer. Or, contact your printer manufacturer.	–
The camera is not recognized by the computer.		
The computer failed to recognize the camera.	Disconnect the USB cable from the camera, and connect it again.	P. 143
The USB driver has not been installed.	Install OLYMPUS Master.	P. 139

Camera care

● Cleaning the camera

Exterior:

- Wipe gently with a soft cloth. If the camera is very dirty, soak the cloth in mild soapy water and wring well. Wipe the camera with the damp cloth and then dry it with a dry cloth. If you have used the camera at the beach, use a cloth soaked in clean water and wrung well.

Monitor:

- Wipe gently with a soft cloth.

Lens:

- Blow dust off the lens with a commercial blower, then wipe gently with a lens cleaner.

Note

- Do not use strong solvents such as benzene or alcohol, or chemically treated cloth.
- Mold may form on the lens surface if the lens is left dirty.

● Storage

- When storing the camera for extended periods, remove the batteries, AC adapter and card, and keep in a cool, dry place that is well ventilated.
- Periodically insert the batteries and test the camera functions.

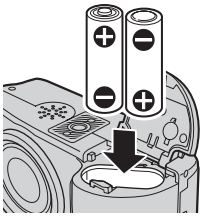
Note

- Avoid leaving the camera in places where chemical products are handled since this may result in corrosion.

Batteries

● The following batteries can be used with this camera. Choose the power source best suited to the situation.

AA alkaline batteries/AA Oxyride batteries
The number of pictures you can take may vary considerably depending on the battery manufacturer and shooting conditions.



AA NiMH batteries
Olympus NiMH batteries are rechargeable and economical. For more details, refer to the instruction manual attached to the charger.

Lithium battery pack (CR-V3)
The Olympus CR-V3 lithium battery pack has a long service life allowing you to use the camera longer than with alkaline batteries. However, it cannot be recharged. Do not remove the label on the battery pack.
This camera uses one lithium battery pack.

- **AA Manganese (zinc-carbon) batteries cannot be used.**

● Power consumption by the camera varies depending on which functions are used.

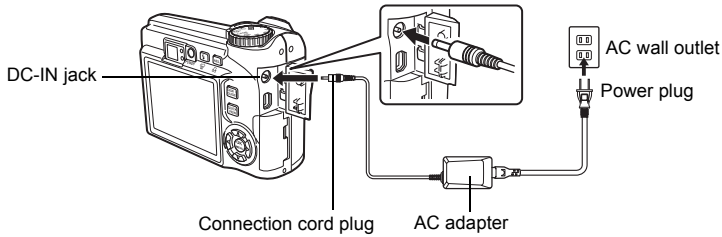
● During the conditions described below, power is consumed continuously and the batteries become exhausted quickly.
- The zoom is used repeatedly.
- The shutter button is pressed halfway repeatedly in shooting mode, activating the auto focus.
- Set [FULLTIME AF] to [ON].
- A picture is displayed on the monitor for an extended period of time.
- The camera is connected to a computer or printer.

● Battery life varies depending on the type of battery, manufacturer, shooting conditions, etc.
Similarly, the camera may turn off without displaying the battery level warning or may display the battery level warning more quickly.

Accessories (optional)

AC adapter

An AC adapter is useful for time-consuming tasks such as image downloads to a computer.
Use the Olympus AC adapter to power your digital camera from a common AC wall outlet. Do not use any other AC adapter with this camera.



Note

- If the battery power runs out while the camera is connected to a computer or printer, the image data may be lost or damaged. It is recommended that you use the AC adapter. Do not connect or disconnect the AC adapter while the camera is connected to a computer or printer.
- Do not remove or load the batteries or connect or disconnect the AC adapter while the camera is turned on. Doing so could affect the camera's internal settings or functions.
- The AC adapter can be used within the range of AC 100 V to AC 240 V (50/60 Hz).
  When using abroad, you may need a plug adapter to convert the plug to match the AC wall outlet. For details, ask at your local electrical shop or travel agent.
- Do not use travel voltage converters as they could damage your AC adapter.
- Be sure to read the instruction manual for the AC adapter.

Safety Precautions

Caution for Usage Environment

- To protect the high-precision technology contained in this product, never leave the camera in the places listed below, no matter if in use or storage:
  - Places where temperatures and/or humidity are high or go through extreme changes. Direct sunlight, beaches, locked cars, or near other heat sources (stove, radiator, etc.) or humidifiers.
  - In sandy or dusty environments.
  - Near flammable items or explosives.
  - In wet places, such as bathrooms or in the rain. When using products with weatherproof designs, read their manuals as well.
  - In places prone to strong vibrations.
- Never drop the camera or subject it to severe shocks or vibrations.
- When mounted on a tripod, adjust the position of the camera with the tripod head. Do not twist the camera.
- Do not touch electric contacts on cameras.
- Do not leave the camera pointed directly at the sun. This may cause lens or shutter curtain damage, color failure, ghosting on the CCD, or may possibly cause fires.
- Do not push or pull severely on the lens.
- Before storing the camera for a long period, remove the batteries. Select a cool, dry location for storage to prevent condensation or mold from forming inside the camera. After storage, test the camera by turning it on and pressing the shutter button to make sure that it is operating normally.
- Always observe the operating environment restrictions described in the camera's manual.

Battery Handling Precautions

- Olympus NiMH batteries (included in some areas) are intended for use only with Olympus digital cameras. Never use these batteries with any other device.
- Always charge NiMH batteries (included in some areas) before using them for the first time, or if they have not been used for a long period.
- Always charge sets of batteries (included in some areas) (2 or 4) together.
- Do not use alkaline batteries unless it is absolutely necessary. In some cases, alkaline batteries may have a shorter service life than NiMH batteries or CR-V3 lithium battery packs. Alkaline battery performance is limited, especially at low temperatures. The use of NiMH batteries is recommended.
- AA manganese (Zinc-Carbon) batteries cannot be used with this camera.
- When operating the camera with battery power at low temperatures, try to keep the camera and spare batteries as warm as possible. Batteries which run down at low temperatures may be restored after they are warmed at room temperature.

- Recommended temperature ranges for NiMH batteries:
  Operation ..... 0°C to 40°C (32°F to 104°F)
  Charge ..... 0°C to 40°C (32°F to 104°F)
  Storage..... -20°C to 30°C (-4°F to 86°F)
- Using, charging, or storing the batteries outside these ranges could shorten battery life or affect battery performance. Always unload the batteries from the camera before storing the camera for a long period.
- Before using NiMH or NiCd batteries, always read the provided instructions.
- The number of pictures you can take may vary depending on the shooting conditions or batteries.
- Before going on a long trip, and especially before traveling abroad, purchase an ample supply of extra batteries. The recommended batteries may be difficult to obtain while traveling.
- Please recycle batteries to help save our planet's resources. When you throw away dead batteries, be sure to cover their terminals and always observe local laws and regulations.

LCD Monitor

- Do not push the monitor forcibly; otherwise the image may become vague, resulting in a playback mode failure or damage to the monitor.
- A strip of light may appear on the top/bottom of the monitor, but this is not a malfunction.
- When a subject is viewed diagonally in the camera, the edges may appear zigzagged on the monitor. This is not a malfunction; it will be less noticeable in playback mode.
- In places subject to low temperatures, the LCD monitor may take a long time to turn on or its color may change temporarily. When using the camera in extremely cold places, it is a good idea to occasionally place it in a warm place. An LCD monitor exhibiting poor performance due to low temperatures will recover in normal temperatures.
- The LCD used for the monitor is made with high-precision technology. However, black spots or bright spots of light may appear constantly on the LCD Monitor. Due to its characteristics or the angle at which you are viewing the monitor, the spot may not be uniform in color and brightness. This is not a malfunction.

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FCC Notice

- Radio and Television Interference
  Changes or modifications not expressly approved by the manufacturer may void the user's authority to operate this equipment. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.
  This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.
  However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
  - Adjust or relocate the receiving antenna.
  - Increase the distance between the camera and receiver.
  - Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
  - Consult your dealer or an experienced radio/TV technician for help. Only the OLYMPUS-supplied USB cable should be used to connect the camera to USB enabled personal computers (PC).

Any unauthorized changes or modifications to this equipment would void the user's authority to operate.

Glossary of terms

A (Aperture Priority) Mode
You set the aperture yourself and the camera automatically varies the shutter speed so that the picture is taken with the best exposure.

AE (Automatic Exposure)
The camera automatically sets the exposure. The 3 AE modes available on this camera are **P** mode, in which the camera selects both the aperture and shutter speed, **A** mode, in which the user selects the aperture and the camera sets the shutter speed, and **S** mode, in which the user selects the shutter speed and the camera sets the aperture. In **M** mode, the user selects both the aperture and the shutter speed.

Aperture
The adjustable lens opening which controls the amount of light that enters the camera. The larger the aperture, the shorter the depth of field and the fuzzier the background. The smaller the aperture, the greater the depth of field and the sharper the background. Larger aperture values indicate smaller apertures, and smaller aperture values indicate larger apertures.

CCD (Charge-Coupled Device)
This converts light passing through the lens into electrical signals. On this camera, light is picked up and converted into RGB signals to build a single image.

DCF (Design Rule for Camera File System)
A standard for image files by the Japan Electronics and Information Technology Industries Association (JEITA).

DPOF (Digital Print Order Format)
This is for saving desired print settings on digital cameras. By entering which images to print and the number of copies of each, the user can easily have the desired images printed by a printer or print lab that supports the DPOF format.

Eclipsing (Vignetting)
This refers to when an object obscures part of the field of view so that the whole subject is not photographed. Vignetting also refers to when the image seen through the viewfinder does not exactly match the image shot through the objective lens, so the photographed image includes objects not seen through the viewfinder. In addition, vignetting can occur when an incorrect lens hood is used, causing shadowing to appear in the corners of the image.

ESP (Electro-Selective Pattern) Light Metering/Digital ESP Light Metering
This determines the exposure by metering and calculating the light levels in the center and other areas of the image separately.

EV (Exposure Value)
A system for measuring exposure. EV0 is when the aperture is at F1 and the shutter speed is 1 second. The EV then increases by 1 each time the aperture increases by one F stop or the shutter speed increases by one increment. EV can also be used to indicate brightness and ISO.

Exposure
The amount of light used to capture an image. The exposure is determined by the time the shutter is open (shutter speed) and the amount of light that passes through the lens (aperture).

Image Size
The size of an image expressed by the number of pixels that make up the image. For instance, a picture taken with an image size of 640 × 480 fills the computer screen when the monitor setting is 640 × 480. However, if the monitor setting is 1,024 × 768, the picture only takes up part of the screen.

ISO
A method for indicating film speed by the International Organization for Standardization (ISO) (ex. “ISO100”). Higher ISO values indicate greater sensitivity to light, so images can be exposed even in low-light conditions.

JPEG (Joint Photographic Experts Group)
A compression format for still images. Photographs (pictures) taken using this camera are recorded onto the card in JPEG format. By downloading these images to a computer, users can edit them using graphics application software or view the images using an Internet web browser.

M (Manual) Mode
The user sets both the aperture and shutter speed.

Noise reduction
When shooting in dark places, shutter speeds become slower as there is less light focused on the CCD. During long exposures, signals are generated by parts of the CCD where no light is focused and are recorded on the picture as noise. When noise reduction works, the camera automatically reduces the noise to produce clearer images.

NTSC (National Television Systems Committee) / PAL (Phase Alternating Line)
Television formats. NTSC is mainly used in Japan, North America and Korea. PAL is mainly used in Europe and China.

P (Program) Mode
Also called Program AE mode. The camera automatically sets the best shutter speed and aperture for the shot.

PictBridge
A standard for connecting digital cameras and printers of different makers and printing out pictures directly.

Pixels
A pixel is the smallest unit (dot) used to make up an image. Clear large-sized printed images require millions of pixels.

S (Shutter Priority) Mode
Also called Shutter Priority AE mode. The user selects the shutter speed and the camera automatically varies the aperture so that the picture is taken with the best exposure.

Slave Flash
A wireless flash that is not connected to the camera by a synchronization cord. It flashes in phase with the flash on the camera and can be used for lighting techniques, such as changing the way shadows are cast on a subject.

Sleep Mode
A mode designed to save battery life. The camera automatically enters the sleep mode if you do not operate it for a certain time. To exit the sleep mode, use any button on the camera (shutter button, arrow pad, etc.).

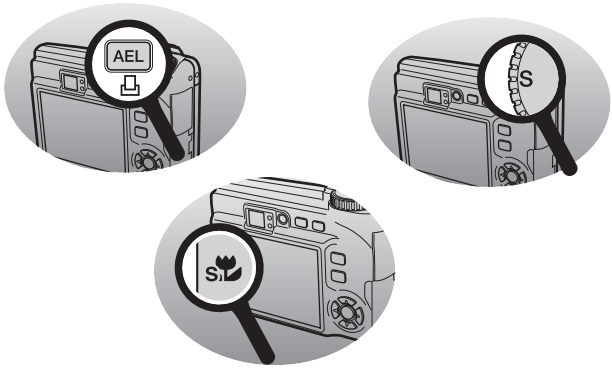
TFT (Thin-Film Transistor) Color Monitor
A transistor color monitor constructed using thin-film technology.

TTL-AUTO
For use with an external flash. Light emitted by the flash is measured by the light receptor in the camera as it passes through the lens. A signal is then sent to adjust the external flash intensity.

11

Miscellaneous

This chapter contains all the camera functions described in Chapters 1 to 9.
Refer here for lists of the top menus and mode menus.
The index helps you find the pages containing a function or item that you are looking for. For effective use of the manual, reference page numbers are listed in the menu lists.



Menu list

● **Shooting mode menus (P, A, S, M, MY, SCENE)**

Top menu	Tab	Item	Sub menu	Settings	Ref. Page
MODE MENU	CAMERA	ESP/[•]		ESP, [•], [◎]	P. 58
				OFF, , S	P. 41
		DRIVE		[□], [□]L, **HI** [□]H, **AF** [□]C, **BKT**	P. 67
		ISO		AUTO, 64, 100, 200, 400, 800	P. 60
		MY 1/2/3/4*1		**MY 1** MY MODE 1 – **MY 4** MY MODE 4	P. 53
				OFF, ON	P. 69
				-2.0 – +2.0	P. 44
		SYNCRO		SYNC1, SYNC2	P. 45
		FLASH		IN, SLAVE	P. 46
		DIGITAL ZOOM		OFF, ON	P. 40
		NOISE REDUCTION		OFF, ON	P. 65
		AF MODE		iESP, SPOT, AREA	P. 54
		FOCUS MODE		AF, MF	P. 55
		FULLTIME AF		OFF, ON	P. 56
		PANORAMA			P. 70
				OFF, ON	P. 71
		TIMELAPSE		OFF, ON	P. 68
	PICTURE		RAW	OFF, SHQ, HQ, SQ1, SQ2	P. 30
			SHQ	3072 × 2304, 3:2 3072 × 2048	P. 26
			HQ	3072 × 2304, 3:2 3072 × 2048	P. 26
			SQ1	2592 × 1944, 2288 × 1712, 2048 × 1536, 1600 × 1200	P. 26
			SQ2	1280 × 960, 1024 × 768, 640 × 480	P. 26

● Shooting mode menus (P, A, S, M, MY, SCENE)

Top menu	Tab	Item	Sub menu	Settings	Ref. Page
MODE MENU	PICTURE	WB	AUTO		P. 61
			PRESET	☀, ☁, 🌅, 💡, 1, 2, 3	P. 61
					P. 61
		WB		RED7 – BLUE7	P. 63
		SHARPNESS		-5 – +5	P. 64
		CONTRAST		-5 – +5	P. 64
		SATURATION		-5 – +5	P. 64
	MEMORY (CARD)	MEMORY FORMAT (FORMAT)		YES, NO	P. 104
		BACKUP		YES, NO	P. 101
	SETUP	RESET		YES, NO	P. 106
		*			P. 106
		PW ON SETUP	SCREEN	OFF, 1, 2	P. 107
			SOUND	OFF, 1, 2	P. 107
		PW OFF SETUP	SCREEN	OFF, 1, 2	P. 107
			SOUND	OFF, 1, 2	P. 107
		REC VIEW		OFF, ON	P. 108
				OFF, LOW, HIGH	P. 109
		BEEP		OFF, 1, 2	P. 109
		SHUTTER SOUND		OFF, 1, 2	P. 109
		MY MODE SETUP		CURRENT, RESET, CUSTOM	P. 115
		FILE NAME		RESET, AUTO	P. 110
		PIXEL MAPPING			P. 111
					P. 112
					P. 113
		DUAL TIME SETUP		OFF, ON	P. 114
		m/ft		m, ft	P. 115
		VIDEO OUT		NTSC, PAL	P. 100
		AF ILLUMINATOR		OFF, ON	P. 57
		SHORT CUT		A, B, C	P. 115
				OFF, ON, DIRECT	P. 73
		FRAME ASSIST		OFF, ▦, ⊠	P. 74
		CUSTOM BUTTON			P. 115

* Available languages vary depending on the area where you purchased this camera.

● Shooting mode menus (P, A, S, M, MY, SCENE)

Top menu	Tab	Item	Sub menu	Settings	Ref. Page
(⏲)*2					P. 69
(⚡)*2					P. 30
SCENE/(🌷)*3					P. 36, 41

*1 Only available in MY mode.

*2 The function registered in [SHORT CUT] is displayed.

*3 In SCENE mode, [SCENE] is displayed. In other modes, the function registered in [SHORT CUT] is displayed.

● Shooting mode menus (🎞)

Top menu	Tab	Item	Sub menu	Settings	Ref. Page
MODE MENU	CAMERA	ISO		AUTO, 64, 100, 200, 400, 800	P. 60
		FULLTIME AF		OFF, ON	P. 56
		🎙(movies)		OFF, ON	P. 49
	PICTURE	WB	AUTO		P. 61
			PRESET	☼, ☁, 🌅, 🕯, 1, 2, 3	P. 61
			🖵		P. 61
		WB±		RED7 – BLUE7	P. 63
		SHARPNESS		-5 – +5	P. 64
		CONTRAST		-5 – +5	P. 64
		SATURATION		-5 – +5	P. 64
	MEMORY (CARD)	MEMORY FORMAT (FORMAT)		YES, NO	P. 104
		BACKUP		YES, NO	P. 101
	SETUP	RESET		YES, NO	P. 106
		🗣*			P. 106
		PW ON SETUP	SCREEN	OFF, 1, 2	P. 107
			SOUND	OFF, 1, 2	P. 107
		PW OFF SETUP	SCREEN	OFF, 1, 2	P. 107
			SOUND	OFF, 1, 2	P. 107
		🔊		OFF, LOW, HIGH	P. 109
		BEEP		OFF, 1, 2	P. 109
		FILE NAME		RESET, AUTO	P. 110
		PIXEL MAPPING			P. 111
		📺			P. 112
		🕒			P. 113
		DUAL TIME SETUP			P. 114
		VIDEO OUT		NTSC, PAL	P. 100
DIGITAL ZOOM				OFF, ON	P. 40
🎞				SHQ 640 × 480 30 fps, HQ 640 × 480 15 fps, SQ1 320 × 240 30 fps, SQ2 320 × 240 15 fps	P. 28
🤲				OFF, ON	P. 48

* Available languages vary depending on the area where you purchased this camera.

● Shooting mode menus (AUTO)

Top menu	Tab	Item	Sub menu	Settings	Ref. Page
MODE MENU	MEMORY (CARD)	MEMORY FORMAT (FORMAT)		YES, NO	P. 104
		BACKUP		YES, NO	P. 101
	SETUP	RESET		YES, NO	P. 106
		*			P. 106
		PW ON SETUP	SCREEN	OFF, 1, 2	P. 107
			SOUND	OFF, 1, 2	P. 107
		PW OFF SETUP	SCREEN	OFF, 1, 2	P. 107
			SOUND	OFF, 1, 2	P. 107
		REC VIEW		OFF, ON	P. 108
				OFF, LOW, HIGH	P. 109
		BEEP		OFF, 1, 2	P. 109
		SHUTTER SOUND		OFF, 1, 2	P. 109
		FILE NAME		RESET, AUTO	P. 110
		PIXEL MAPPING			P. 111
					P. 112
					P. 113
		DUAL TIME SETUP		OFF, ON	P. 114
		m/ft		m, ft	P. 115
		VIDEO OUT		NTSC, PAL	P. 100
		AF ILLUMINATOR		OFF, ON	P. 57
				OFF, ON, DIRECT	P. 73
		FRAME ASSIST		OFF, ,	P. 74
				OFF, ON	P. 69
			SHQ	3072 × 2304, 3:2 3072 × 2048	P. 26
			HQ	3072 × 2304, 3:2 3072 × 2048	P. 26
			SQ1	2592 × 1944, 2288 × 1712, 2048 × 1536, 1600 × 1200	P. 26
			SQ2	1280 × 960, 1024 × 768, 640 × 480	P. 26
				OFF, ,	P. 41

* Available languages vary depending on the area where you purchased this camera.

● Playback mode menus ([▶]) (still pictures)

Top menu	Tab	Item	Sub menu	Settings	Ref. Page
MODE MENU	PLAY			OFF, ON	P. 101
				+90°, 0°, -90°	P. 77
				NORMAL, SCROLL, FADER, ZOOM DOWN, ZOOM UP, CHECKERBOARD, BLINDS, SWIVEL, RANDOM	P. 86
				,	P. 131
					P. 88
		ALBUM ENTRY		SEL. IMAGE, SET CALENDAR, SET ALL, CANCEL	P. 80
	EDIT	RAW DATA EDIT		SHQ, HQ, SQ1, SQ2	P. 89
			WB	AUTO, PRESET,	P. 89
			WB	RED7 – BLUE7	P. 89
			SHARPNESS	-5 – +5	P. 89
			CONTRAST	-5 – +5	P. 89
			SATURATION	-5 – +5	P. 89
				640 × 480, 320 × 240, CANCEL	P. 89
				NEW FILE, CANCEL	P. 89
		REDEYE FIX		NEW FILE, CANCEL	P. 89
		BLACK & WHITE		NEW FILE, CANCEL	P. 89
		SEPIA		NEW FILE, CANCEL	P. 89
		FRAME		NEW FILE, CANCEL	P. 92
		TITLE		NEW FILE, CANCEL	P. 92
		CALENDAR		NEW FILE, CANCEL	P. 92
		LAYOUT		NEW FILE, CANCEL	P. 92
		BRIGHTNESS		NEW FILE, CANCEL	P. 95
		SATURATION		NEW FILE, CANCEL	P. 95
	MEMORY (CARD)	ALL ERASE		YES, NO	P. 103
		MEMORY FORMAT (FORMAT)		YES, NO	P. 104
		BACKUP		YES, NO	P. 101

● Playback mode menus ([▶]) (still pictures)

Top menu	Tab	Item	Sub menu	Settings	Ref. Page
MODE MENU	SETUP	RESET		YES, NO	P. 106
		🗣*1			P. 106
		PW ON SETUP	SCREEN	OFF, 1, 2	P. 107
			SOUND	OFF, 1, 2	P. 107
		PW OFF SETUP	SCREEN	OFF, 1, 2	P. 107
			SOUND	OFF, 1, 2	P. 107
		SCREEN SETUP		PW ON SETUP, PW OFF SETUP	P. 107
		VOLUME		0 – 5	P. 109
		🔊		OFF, LOW, HIGH	P. 109
		BEEP		OFF, 1, 2	P. 109
		🖥			P. 112
		🕒			P. 113
		DUAL TIME SETUP		OFF, ON	P. 114
		VIDEO OUT		NTSC, PAL	P. 100
EDIT*2					–
ALBUM					P. 80
CALENDAR					P. 77

*1 Available languages vary depending on the area where you purchased this camera.

*2 This is the same as the [MODE MENU] ▶ [EDIT] menu.

● Playback mode menus ([▶]) (movies)

Top menu	Tab	Item	Sub menu	Settings	Ref. Page
MODE MENU	PLAY	🔑		OFF, ON	P. 101
		INDEX PLAY			P. 79
		ALBUM ENTRY		SEL. IMAGE, SET CALENDAR, SET ALL, CANCEL	P. 80
	EDIT	INDEX		NEW FILE, CANCEL	P. 97
		EDIT		NEW FILE, OVERWRITE, CANCEL	P. 98
	MEMORY (CARD)	ALL ERASE		YES, NO	P. 103
		MEMORY FORMAT (FORMAT)		YES, NO	P. 104
		BACKUP		YES, NO	P. 101
	SETUP	RESET		YES, NO	P. 106
		🗣*			P. 106
		PW ON SETUP	SCREEN	OFF, 1, 2	P. 107
			SOUND	OFF, 1, 2	P. 107
		PW OFF SETUP	SCREEN	OFF, 1, 2	P. 107
			SOUND	OFF, 1, 2	P. 107
		VOLUME		0 – 5	P. 109
		🔊		OFF, LOW, HIGH	P. 109
		BEEP		OFF, 1, 2	P. 109
		🖥			P. 112
		🕒			P. 113
		DUAL TIME SETUP		OFF, ON	P. 114
		VIDEO OUT		NTSC, PAL	P. 100
MOVIE PLAY					P. 78
ALBUM					P. 80
CALENDAR					P. 77

* Available languages vary depending on the area where you purchased this camera.

● Playback mode menus for album playback mode (▶)

Top menu	Item	Settings	Ref. Page
ALBUM MENU	🔑	OFF, ON	P. 101
	↻*1	+90°, 0°, -90°	P. 77
	SELECT TITLE IMAGE	OK, CANCEL	P. 83
	UNDO ENTRY	SEL. IMAGE, UNDO ALL, CANCEL	P. 84
	🖨*1	🖨, 🖨ALL	P. 131
	VOLUME	0 – 5	P. 109
	📺		P. 112
	VIDEO OUT	NTSC, PAL	P. 100
▶*1, MOVIE PLAY*2			P. 86, 78
CLOSE ALBUM			P. 83
SEL. ALBUM			P. 82

*1 Not displayed for movies.

*2 Not displayed for still pictures.

List of factory default settings

The functions are set as follows when the camera leaves the factory.

● **Shooting mode**

Information display (**DISP./GUIDE**)	Information on screen
Optical zoom	Wide
FNo.	F2.8
SHUTTER SPEED	1/1000
±	0.0
Flash	Still pictures: AUTO (**S**, **M**: ⚡) Movies: ⊗
AEL	OFF
ESP/[•]	ESP
🌷	OFF
DRIVE	□
ISO	AUTO (**A**, **S**, **M**: 64)
MY 1/2/3/4	MY 1 MY MODE 1
⏲	OFF
±⚡	0.0
⚡SYNCRO	⚡SYNC1
FLASH	IN
DIGITAL ZOOM	OFF
NOISE REDUCTION	OFF
AF MODE	iESP
FOCUS MODE	AF
FULLTIME AF	Still pictures: OFF Movies: ON
🎤 (still pictures)	OFF
TIMELAPSE	OFF
🎤 (movies)	OFF
◀	Still pictures: HQ 3072 × 2304 Movies: HQ (640 × 480 15 fps)
(( ))	OFF
WB	AUTO
WB±	No compensation

SHARPNESS	±0
CONTRAST	±0
SATURATION	±0
REC VIEW	ON
SHUTTER SOUND	1 - LOW
FILE NAME	RESET
m/ft	m
AF ILLUMINATOR	ON
SHORT CUT	A: ⏲, B: ◀⋮, C: 🌷
📶	ON
FRAME ASSIST	⊞
CUSTOM BUTTON	AE LOCK

● **Playback mode**

Information display (**DISP./GUIDE**)	Information off screen
O-n	OFF
🔄	0°
🖼	NORMAL
🎙	OFF
VOLUME	3

● **Others**

Monitor	ON
🗣📋*	
PW ON SETUP	SCREEN: OFF, SOUND: OFF
PW OFF SETUP	SCREEN: OFF, SOUND: OFF
■))))	LOW
BEEP	1 - LOW
📺	±0
🕒	Y-M-D 2006.01.01 00:00
DUAL TIME SETUP	OFF
VIDEO OUT	NTSC or PAL*

* Settings differ according to the region where the camera is sold.

Functions available in shooting modes and scenes

Some functions cannot be set in certain shooting modes. For more details, refer to the table below. In MY mode, available functions vary depending on the modes set in the [MY MODE SETUP] menu.
In **SCENE** mode, in order to produce specialized effects, some scenes limit control of certain functions. Those functions are indicated with an ▭. For details, refer to “Functions with limited operations by scene” (P.186).

● **Modes and shooting functions**

Function \ Shooting mode		AUTO	P	A	S	M	SCENE	
Flash	AUTO		✓		—			—
	◉		✓		—			—
	⚡				✓			—
	◉⚡				✓			—
	⚡				✓			—
Information display					✓			
Optical zoom					✓			✓
±		—		✓		—	✓	
AE LOCK		—		✓		—	✓	—
AF LOCK		—			✓			—
AREA		—			✓			—
ESP/[•]		—			✓			—
🌷					✓			—
S🌷					✓			—
DRIVE		—		✓		✓*1		—
ISO		—	✓		✓*2			✓
⏲					✓			—
⚡±		—			✓			—
⚡SYNCRO		—			✓			—
FLASH	IN	—			✓			—
	SLAVE	—			✓		—	
DIGITAL ZOOM		—			✓			✓
NOISE REDUCTION		—			✓			—
AF MODE		—			✓			—

Function \ Shooting mode	AUTO	P	A	S	M	SCENE	
FOCUS MODE	—	✓					—
PANORAMA	—	✓	—				—
(still pictures)	—	✓					—
TIMELAPSE	—	✓					—
FULLTIME AF	—	✓					
(movies)	—						✓
	—						✓
	✓*3	✓					✓
WB	—	✓					
	—	✓					
SHARPNESS	—	✓					
CONTRAST	—	✓					
SATURATION	—	✓					
MEMORY FORMAT (FORMAT)	✓						
BACKUP	✓						
RESET	✓						
	✓						
PW ON SETUP	✓						
PW OFF SETUP	✓						
REC VIEW	✓						—
	✓						
BEEP	✓						
SHUTTER SOUND	✓						—
MY MODE SETUP	—	✓					—
FILE NAME	✓						
PIXEL MAPPING	✓						
	✓						
	✓						
DUAL TIME SETUP	✓						
m/ft	✓						—
VIDEO OUT	✓						
AF ILLUMINATOR	✓						—

Function \ Shooting mode	AUTO	P	A	S	M	SCENE	
SHORT CUT	—	✓					—
		✓					—
FRAME ASSIST		✓					—
CUSTOM BUTTON	—	✓					—

*1 [BKT] is not available. *2 [AUTO] is not available.
*3 [RAW] is not available.

● **Functions with limited operations by scene**

Function \ Scene													
Flash	✓		—	✓	—			✓					
Optical zoom	✓		—	✓					—				
AREA	✓			—	✓				—				
	✓	—		✓	—	✓	✓*1	✓					
	✓	—		✓	—	✓	—	✓					
DRIVE	✓	—	✓	—	✓		—		✓				
ISO	✓*4							✓					
	✓						—	✓					
	✓	—	✓	—	✓			✓					
SYNCRO	✓	—	✓	—	✓			✓					
DIGITAL ZOOM	✓		—	✓					—				
NOISE REDUCTION	—	✓*2	—	✓*2	—								
AF MODE	✓			—	✓				—				
FOCUS MODE	✓			—	✓				—				
PANORAMA	✓					—		✓					
(still pictures)	✓					—							
TIMELAPSE	✓					—		✓					
	✓*5					—*3		✓*5					
REC VIEW	✓								—				
AF ILLUMINATOR	✓		—		✓				—				

*1 This is fixed at [ ]. *2 This is fixed at [ON].
*3 The record mode is fixed at [640 × 480] in [SQ2].
*4 Reducing blur is set to [AUTO].
*5 A suitable record mode is set for each scene. But, [RAW] cannot be set.

Index

button (erase) 13, 85, 102
button (flash mode) 12, 42
button (OK/MENU).....12, 13
button (print).....13, 122
3:2 27

A
AA alkaline batteries 163
AC adapter.....164
AE 169
AE lock AEL.....12, 58
AE memory MEMO 59
AEL button (AE lock).....12, 58
AF illuminator 57
AF MODE.....54
AF sequential shooting **AF** 67
AF target mark 24
ALBUM.....80, 82
ALBUM ENTRY 80
ALBUM MENU 80
Album playback mode.....15, 80
ALL ERASE 103
ALL INDEX.....127
ALL PRINT 127
All-frame reservation 134
Aperture priority mode **A** 51, 169
Aperture value.....51
AREA 54
Arrow pad.....17
AUCTION 37
AUTO (Flash).....42
AUTO (ISO) 60
AUTO (shooting mode) AUTO ...10
AUTO (white balance) **WB AUTO** 61
Auto bracketing **BKT**.....67
Auto focus **AF** 25
AV cable.....99
AVAILABLE LIGHT PORTRAIT 37

B
BACKUP 101
Battery..... 163, 165
BEACH 38
BEEP..... 109
Beep sound 109
BEHIND GLASS 37
BLACK & WHITE 89
BLINDS 86
BRIGHTNESS..... 95

C
CALENDAR (edit) 92
CALENDAR (playback)..... 76, 77
Camera movement compensation 48
CANDLE 37
Card 33
Card cover..... 33
CCD 111, 169
Center-weighted metering 58
CHECKERBOARD..... 86
CLOSE ALBUM..... 83
Close-up playback 76
Cloudy day 61
Color temperature value..... 61
Compression 26, 27
Connector cover..... 99, 143
CONTRAST 64
CUISINE 37
CURRENT (MY MODE SETUP) 117
CUSTOM (MY MODE SETUP) 117
CUSTOM BUTTON..... 116
Custom button..... 12, 115
CUSTOM PRINT..... 123

D
D IMAGE STABILIZATION 36
Date and time 113
DC-IN jack..... 164

DIGITAL ZOOM 40
DIRECT (Histogram).....73
Direct printing.....121
DISP./GUIDE button
.....12, 13, 19, 72
DOCUMENTS 37
DPOF.....131, 169
DRIVE.....67
Dual time.....114
DUAL TIME SETUP 114

E
EASY PRINT.....122
EDIT.....98
Error messages.....130
ESP.....58, 169
EV.....169
Evening sunlight 61
Exposure.....24, 170
Exposure compensation 60

F
FADER.....86
FILE NAME.....110, 129
File name.....110
Fill-in flash 42
FIREWORKS 37
Flash.....42
FLASH 46
Flash intensity control 44
Flash mode 12, 42
Flash off 42
Flash stand-by 43
Fluorescent lamp 1/2/3 1 2 3
.....61
Focus 24, 54
Focus lock.....24
FOCUS MODE.....55
Format.....104
FORMAT 104
FRAME 92
FRAME ASSIST 74
Front curtain **SYNC1** 45
FULLTIME AF 56

G
Green lamp 24

H
High speed sequential
shooting **HI** 67
Histogram 13, 72, 73
HQ..... 26, 30

I
iESP 54
Image size..... 26, 170
IN..... 32
INDEX 97
Index display 76
INDEX PLAY 79
INDOOR 36
Information display **DISP./GUIDE**
..... 13, 72
Internal memory 32
ISO 60, 170

J
JPEG..... 26, 31, 170

L
LANDSCAPE 36
LANDSCAPE+PORTRAIT
..... 36
LAYOUT..... 92
Lithium battery pack..... 163

M
m/ft 115
Macro mode 41
Manual focus **MF**..... 55
Manual mode **M**..... 53, 170
MEMORY FORMAT 104
Memory indicator..... 32
Menu guide 19
Metering **ESP**/ 58
Microphone 72, 88
Mode dial..... 10
MODE MENU..... 14, 16
Monitor 12

Monitor brightness adjustment 112
Motion-JPEG 28
Movie 78
MOVIE PLAY 78
Movie recording 47
MULTI PRINT 127
Multi-connector 99, 122, 123, 143
MUSEUM 37
MY MODE 53
MY MODE SETUP **1/2/3/4** 115

N
NIGHT SCENE 36
NIGHT+PORTRAIT 36
NiMH battery 163
Noise reduction NR 65, 170
NORMAL 86
NTSC 100, 170
Number of prints 129
Number of storable still pictures 28

O
OLYMPUS Master 138
One-touch 61
Optical zoom 40
Orange lamp 24, 147

P
PAL 100, 170
PANORAMA 70
PC 143
PictBridge 121, 170
Picture rotation 77
PIXEL MAPPING 111
Pixels 26, 170
Playback mode 10, 76
Playback on a TV 99
Playing time 78
PORTRAIT 36
POWER button 22
PRESET (WB) 61
Press fully 24
Press halfway 24
PRINT ORDER 127
Print settings 131
Program mode P 10, 170
Protect 101
PW OFF SETUP 107
PW ON SETUP 107

Q
QUICK VIEW button 12, 76

R
RANDOM 86
RAW 27, 30
RAW DATA EDIT 89
Rear curtain **SYNC2** 45
REC VIEW 108
Record mode 26, 30
Recording sound 49, 71, 88
Recording sound with movies 49
Recording sound with still pictures 71
Red-eye fill-in flash 42
REDEYE FIX 89
Red-eye reduction flash 42
Remaining recording time 28
RESET 106
RESET (MY MODE SETUP) 117
Resizing 89

S
SATURATION 95
SATURATION RGB 64
SCENE 10, 36
SCREEN SETUP 107
SCROLL 86
SEL. ALBUM 82
SEL. IMAGE 81, 84
SELECT TITLE IMAGE 83
Selecting a language 106
SELF PORTRAIT 37
Self-timer lamp 70

Self-timer 69
SEPIA 89
Sequential shooting 67
SET ALL 81
SET CALENDAR 81
SHARPNESS 64
SHOOT & SELECT 1/2 38
Shooting mode 10
SHORT CUT 115
Shortcut menus 14, 15
SHQ 26, 30
Shutter button 24
Shutter priority mode **S** 52, 171
SHUTTER SOUND 109
Shutter speed 52
Single-frame erase 85, 103
Single-frame reservation 133
Single-frame shooting 67
SLAVE 171
Sleep mode 171
Slideshow 86
SNOW 38
SPORT 36
SPOT (AF MODE) 54
Spot metering 58
SQ1 ..... 26, 30
SQ2 ..... 26, 30
STANDARD 121
Sunny day 61
SUNSET 37
Super macro mode 41
SWIVEL 86
SYNCRO 45

T

TIMELAPSE 68
TITLE 92
Top menu 14
Total recording time 78
Trimming 89, 129, 133
TTL-AUTO 171
Tungsten light 61

U

UNDER WATER MACRO 38
UNDER WATER WIDE 1/2 38
UNDO ALL 84
UNDO ENTRY (ALBUM ENTRY) 84
USB cable 122, 123, 143, 151
USB driver 139, 151

V

VIDEO OUT 100
Viewfinder 23
VOLUME 109

W

WB 61
White balance compensation 63

X

xD 32
xD-Picture Card 33

Z

Zoom 40
ZOOM DOWN 86
Zoom lever 40, 76
ZOOM UP 86

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